

Graduate

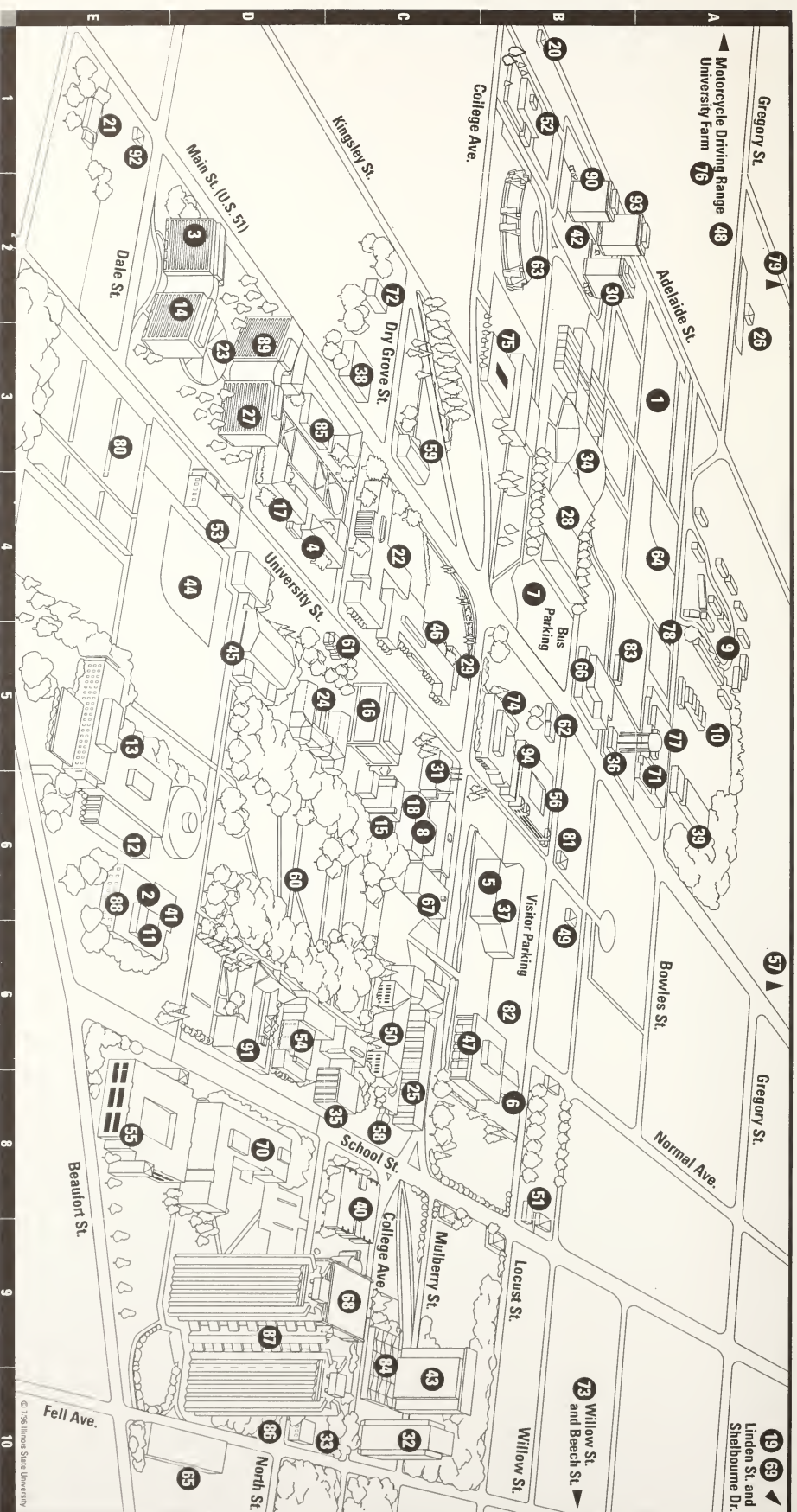
Catalog

1997 - 1998



ILLINOIS STATE
UNIVERSITY





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Illinois State University Graduate Catalog

1997-98

Effective May 19, 1997

The general policies, regulations, calendar, fees and courses contained in this catalog are subject to change without notice at the discretion of Illinois State University.

Illinois State University is committed to non-discrimination and equal opportunity in programs, activities, and employment for students and employees regardless of race, color, religion, sex, national origin, sexual orientation, ancestry, age, marital status, physical or mental disability, unfavorable discharge from military, or status as a disabled veteran or veteran of the Vietnam Era, or other factors prohibited by law. Further, Illinois State University is committed to a comprehensive program of Affirmative Action to insure access, equity and fairness in educational programs, related activities and employment for minorities, women, disabled persons, disabled veterans and veterans of the Vietnam Era. The Affirmative Action Office is responsible for the administration and monitoring of Illinois State University's equal opportunity/affirmative action policies and procedures.

Concerns regarding this policy should be referred to the Affirmative Action Office, Illinois State University, Campus Box 1280, Normal, Illinois 61790-1280, phone (309) 438-3383 or TT/TDD (309) 438-2554. The Title IX Coordinator may be reached at the same address. The 504 and ADA Coordinator may be reached at 1290 Disabilities Concerns, 350 Fell Hall, phone (309) 438-5853, or TDD/TT (309) 438-8620

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University Calendar, 1997-1998

1997 Summer Session

May 19-August 8	Summer Term.
May 26	Memorial Day Holiday.
June 24	Last Day to apply for graduation in August.
July 4	Independence Day Holiday.
July 17	Incompletes due in the Records Office for August graduation.
July 31	Last day to file thesis/dissertation in Graduate Office for August graduation. Deadline: 2:00 p.m.
August 9	Degrees awarded.
August 12	Grades due at 12:00 noon.

1997 First Semester

August 17	Students eligible for Continuous Registration must be registered.
August 18	Classes begin.
September 1	Labor Day Holiday.
September 10	Plan of Study and Thesis/Dissertation Proposal approval form due in Graduate Office for any student graduating in December, 1997.
September 10	Last day to apply to departments to take comprehensive examinations.
September 17	Last day to apply for December graduation.
October 10	First half of semester ends.
October 17	Fall Break Day.
November 21	Incompletes due in the Records Office for December graduation.
November 25	Thanksgiving vacation begins at 5:30 p.m.
December 1	Classes resume.
December 5	Last day to file thesis/dissertation in Graduate Office for December graduation. Deadline: 2:00 p.m.
December 6	Last day of classes.
December 8-12	Evaluation period.
December 13	Commencement.
December 16	Grades due at 9:00 a.m.

1998 Second Semester

January 11	All students eligible for Continuous Registration must be registered.
January 12	Classes begin.
January 19	Martin Luther King, Jr. Holiday.
January 28	Plan of Study and Thesis/Dissertation Proposal approval form due in Graduate Office for any student graduating in May, 1998.
January 28	Last day to apply to departments to take comprehensive examinations.
February 4	Last day to apply for graduation in May.
March 7	First half of semester ends.
March 7	Spring vacation begins at 12:00 noon.
March 16	Classes resume.
April 1	Plan of Study and Thesis/Dissertation Proposal approval form due in Graduate Office for any student graduating in August, 1998.
April 17	Incompletes due in the Records Office for May graduation.
May 1	Last day to file thesis/dissertation in Graduate Office for May graduation. Deadline: 2:00 p.m.
May 2	Last day of classes.
May 4-8	Evaluation period.
May 9	Commencement.
May 12	Grades due at 9 a.m.



GENERAL INFORMATION

Board of Trustees

The Board of Trustees is the governing board for Illinois State University. Members of the Board are:

G. Thomas Andes, Belleville
Jaime Flores, Chicago
Nancy Froelich, Hudson
Diane Glenn, Chicago
Jack Huggins, East Peoria
Carl E. Kasten, Carlinville
William D. Sulaski, Bloomington, Chair
One student, non-voting member.

University Administrative Officers

David A. Strand, President
John K. Urice, Vice President and Provost
Elizabeth A. Chapman, Associate Provost
Robert D. Young, Acting Associate Vice President for Research and Dean of Graduate Studies
Alan E. Dillingham, Associate Vice President for Instruction and Dean of Undergraduate Studies
Sharon E. Stanford, Associate Vice President for Academic Administrative Services
W. Laurance Quane, Acting Dean, College of Applied Science and Technology
Paul T. Schollaert, Dean, College of Arts and Sciences
Dixie L. Mills, Dean, College of Business
Sally B. Pancrazio, Dean, College of Education
Alvin Goldfarb, Dean, College of Fine Arts
Cheryl A. Elzy, Acting Dean of University Libraries
Charles A. Taylor, Vice President for Business and Finance
Judith K. Riggs, Vice President, Institutional Advancement and Executive Director, Illinois State University Foundation

Members of the Graduate Council

Graduate Council minutes are now available on World Wide Web at <http://www.grad.ilstu.edu/grad/home/htm>.

Admissions Committee

Marilyn P. Newby(1997)
Carol A. Thornton(1998)
Douglas Love(1998)
James G. Kirchner(1999)

Curriculum Committee

Dianne E. Ashby(1997)
Martha Power(1998)
Angelo Capparella(1999)
Timothy Longfellow(1999)

Membership Committee

Douglas W. Whitman(1997)
Kenneth D. Smicklas(1997)
Cynthia M. Kukla(1998)
Maribeth Lartz(1999)

Research Committee

Mack Bowen(1997)
Salvatore J. Catanzaro(1997)
Sandra M. Metts(1998)
Dale Brown(1999)

Student Members

Tony Holly
Kara Mehrkens

University Telephone Numbers and World Wide Web Address

Directory Assistance (309) 438-2111
<http://www.ilstu.edu/>

Admissions Office (309) 438-2181
<http://www.ilstu.edu/depts/admissions/>

Graduate School (309)438-2583
<http://www.grad.ilstu.edu/grad/home/htm>

Illinois State University Mission Statement

Illinois State University is a student-centered, multipurpose institution committed to providing undergraduate and graduate programs which are of the highest quality in the state of Illinois. The central mission of the University is to expand the horizons of knowledge and culture among students, colleagues, and the general citizenry through teaching and research.

Illinois State University recognizes that teaching and research are mutually supportive activities. Therefore, while developing student potential through superior teaching is the first priority of the University, the promotion of research which is recognized at national and international levels is also a high priority. Illinois State University is committed to public service activities which complement the teaching and research interests of the faculty. The University is committed to expanding student involvement in learning through the provision of outstanding campus-life programs and activities.

The goals of Illinois State University are to:

- provide the premier undergraduate education in Illinois;
- provide premier graduate education in selected areas;
- provide an academic atmosphere which nurtures intellectual activity within the University community;
- support research and creative activity which are recognized at national and international levels;
- engage in public service and economic development activities which complement the University's teaching and research functions;
- expand and strengthen graduate programs in areas which build on the strengths of undergraduate programs and/or which have a unique educational focus;
- provide opportunities for students to increase their capacity for inquiry, logical thinking, critical analysis, and synthesis and to apply these abilities in the pursuit of one's discipline;
- increase understanding of global and national interdependence and expand knowledge and understanding of other cultures in the context of a multicultural society;
- provide co-curricular activities, programs, and services that augment the formal education of students and maximize their involvement in the educational process;
- provide access and services for students from underrepresented groups and students with special talents;
- encourage academic diversity by supporting the unique missions and strengths of each of the colleges.

The University

Illinois State University was founded in 1857 as the first public institution of higher learning in Illinois. The University has a proud heritage in that the documents establishing the pioneer educational undertaking were drafted by Abraham Lincoln. Today, Illinois State University is, as its founders dreamed, a comprehensive institution with degree programs at the bachelor's, master's, and doctoral levels.

Academic programs and courses are offered in thirty-five academic departments which are organized into five colleges. Over 20,000 students have a full range of study options in business, liberal arts, science, fine arts, education, applied science, technology, and pre-professional fields. Major classroom buildings are centrally located and are surrounded by the library, recreational, social, and residence structures.

The Central Illinois community of Normal-Bloomington, home of Illinois State University, has a population of 100,000.

Mission Statement of the Graduate School

The Graduate School advances the University's mission to expand knowledge and culture among students, colleagues, and the general citizenry through teaching, research, and service. Graduate education provides opportunities for all students, including those from underrepresented groups, to learn advanced skills enabling them to generate knowledge through research and creative endeavors, to disseminate their scholarship, and to prepare for careers throughout the public and private sectors.

The Graduate School supports the expansion and strengthening of graduate programs including: (1) master's programs in areas that build on strengths of undergraduate programs, have a unique educational focus, or prepare students for viable careers; (2) doctoral programs in areas of demonstrated programmatic strength and expertise or where a compelling societal need exists. The Graduate School seeks to strengthen the University's role as a Carnegie Doctoral I institution.

The Graduate School

The University began offering graduate work in 1943, when it introduced master's degree programs in several departments. The number of degrees has increased gradually since that time, with doctoral work being introduced in 1962.

Today the Graduate School offers master's degree work in more than thirty academic fields and professional education areas as well as the Specialist in School Psychology degree. The Master of Fine Arts degree is offered in Art and Theatre. Doctoral programs are offered in Biological Sciences, Curriculum and Instruction, Educational Administration, English, History, Mathematics Education, School Psychology, and Special Education.

The members of the graduate faculty of each department are listed in the departmental sections. The entire faculty of the Graduate School is shown in a section after the Departments and Course Offerings.

It is the chief aim of the Graduate School to provide an atmosphere in which competent students may join a qualified faculty in extending their fields of knowledge, and where they may share experience in research leading to professional improvement and scholarly achievement.

Graduate Student Association

The Graduate Student Association (GSA) is an academic, political and social organization composed of all graduate students. The GSA provides a forum for graduate students to

express their concern for the welfare of graduate students, develop and disseminate ideas for improvement of graduate education, and to assist in the orientation of graduate students to the University. The governing body of the GSA is the Graduate Student Advisory Group (GSAG), which consists of one member from each department on campus that has a graduate program. The GSAG meets bi-monthly to conduct its business. In addition, the Chairperson of the GSAG shall convene a general meeting of the Graduate Student Association during the Fall and Spring semesters for the purpose of reporting GSAG activities and providing a forum for graduate students to express their concerns. Five GSAG members, each representing one of the academic colleges, form the committee which recommends distribution of the Research and Professional Advancement (Grant-in-Aid) Funds to the Graduate Dean. Two members of the GSAG also serve on the Graduate Council which is the policy making body of the Graduate School. Graduate Associations for specific groups, e.g. Black Graduate Student Association (BGSA), coordinate events and activities with the GSA.

Accreditation

Illinois State University is accredited at the doctoral level by the Commission on Institutions of Higher Education of the North Central Association of Colleges and Schools. All teacher preparation programs are accredited by the National Council for Accreditation of Teacher Education and are certified by the Illinois State Board of Education. Eighteen programs hold discipline-based accreditation. The University holds institutional memberships in the American Council of Education, the American Association of Colleges for Teacher Education, and the Council of Graduate Schools of the United States.

Library Resources

The library building, completed on July 1, 1976, provides study space for 2,500 students and shelving for some 1.8 million individual items. Each of the six floors of the Library provides a variety of study areas — individual carrels, small tables, faculty studies, and lounge chairs — all located adjacent to books, periodicals, and other library materials. These are arranged according to subject — the humanities, the social sciences, the sciences, and education-psychology on separate floors, where subject reference service and on-line and CD-ROM data base searches are also provided. A 110-unit personal computer study area is available for use on the main floor. A General Reference and Documents Area on the main floor, open 24 hours from Sunday through Thursday, provides an initial contact reference service for students. However, graduate students should familiarize themselves with the specialized services which are offered in the divisional areas by subject librarians.

The collections of the University Library include 1,301,788 cataloged books and 396,620 U.S. Government publications, a total of 1,698,408 volumes. Many thousand additional publications are available in miniature in 1,882,332 pieces of microform. The Map Collection contains 461,841 maps and other cartographic items, and a record and video collection of over 26,503 items is also available in the Media Resource Center.

The Library provides access to other libraries throughout the country as a participant in OCLC and in Illinois through the Illinois Library Network and the Illinois Library Computer System. The Library is also a member of the Inter-University Consortium for Political and Social Research (ICPSR) which enables Illinois State students to access thousands of data files located in Ann Arbor, Michigan. An Interlibrary Delivery System brings books from other Illinois libraries to the campus daily.

University Galleries and Museums

Founded in 1973, University Galleries is among the largest public exhibition spaces in downstate Illinois devoted to presenting a wide survey of contemporary art. University Galleries is a unit of the College of Fine Arts and is located in the Center for the Visual Arts building. The main focus of University Galleries is generating and traveling innovative exhibitions featuring locally, regionally, and nationally known artists working in a variety of mediums, styles and conceptual approaches. Also regularly scheduled are exhibitions of Illinois State faculty, student, and alumni artwork, as well as selections from the permanent collection of over two thousand 20th century paintings, drawings, prints, sculptures, photographs, and objects in glass, metals, wood, fiber and ceramic. University Galleries publishes illustrated catalogues that are distributed worldwide, and are available at a discount to all students, staff and faculty.

In addition to exhibitions, University Galleries presents extensive educational programs open to the university and general community, including artist lectures, panel discussions, workshops, films and video, guided tours, research and study facilities, informational brochures, and classes, internships, and student employment. University Galleries also hosts meetings, dance and music events, plays, performances, lectures, readings and films for a variety of university and community groups.

The Ewing Museum of Nations, at the corner of Towanda Avenue and Emerson Street, Bloomington, provides exhibitions and programs illustrating the world's cultural heritage.

The Eyestone School Museum, a renovated 1900 one-room school is located at Adelaide and College Streets.

The Stevenson Memorial Room, on the first floor of Stevenson Hall, displays memorabilia of the Stevenson family with particular emphasis on Adlai E. Stevenson II.

The President's Gallery, located on the fourth floor of Hovey Hall, features a rotating series of exhibitions highlighting the University's art collections.

Semester Plan and Summer Session

The University is operated on the semester plan and provides, in addition to its fall and spring semesters, a summer session with courses of varying lengths, and a variety of short-term offerings. During the summer session, a student may register for one, two, three, or four credit-hour courses at the rate of one hour of credit per week. The *Summer Class Registration Directory* may be obtained by writing to Office of Admissions, Illinois State University, Campus Box 2200, Normal, IL 61790-2200. The schedule contains information on the cost, schedule of classes, and special features of the summer session, such as short courses and workshops.

Evening, Off-Campus Classes

In addition to courses offered during the regular school day, evening and weekend classes are scheduled both on-campus and off-campus. For courses offered by Illinois State University, no differentiation is made between credits earned on-campus and off-campus. Inquiries concerning off-campus classes should be directed to the Associate Provost (309 438-2922). Information about some of these extension credit course offerings is available in the *Class Registration Directory* published each semester. Non-credit workshops, seminars, and conferences are scheduled also by the Illinois State Conferencing Unit (309/438-2160).

Quad Cities Graduate Study Center

The mission of the Quad-Cities Graduate Study Center is to provide graduate level coursework and programs to residents of the greater Quad Cities. Formed in 1969, the Center is a voluntary academic consortium of eleven public and private higher education institutions in Illinois and Iowa. The Graduate Center serves the needs of place-bound students whose work and family responsibilities make traditional on-campus study difficult. Courses are held during evening and weekend hours to accommodate students' daily schedules. Currently the doctoral program in Educational Administration is available.

For information contact Quad Cities Graduate Center, 639 38th Street, Rock Island, Illinois 61201, (309) 794-7476, fax (309) 794-1905, email QC@gradcenter.org or Web site <http://www.gradcenter.org>. or Illinois State University at <http://www.ilstu.edu>.



COSTS AND PAYMENT POLICY

Tuition and Fees

Tuition rates for 1997-98 have been approved as listed below, however they are subject to change by action of the Board of Trustees. Fees other than health insurance are assessed at a per semester hour rate through the first twelve hours and should be known early in 1997. Health insurance is assessed to all students enrolled in nine or more semester hours and to all graduate assistants. Tuition is assessed at per semester hour rates through the first sixteen hours.

RATE SCHEDULE

	Residents	Non-Residents
Tuition per semester hour:	\$99.40	\$298.20
Fees per semester hour:		
General Activity	\$4.04	
Athletic and Service	\$8.10	
Bone Student Center	\$5.29	
Recreation and Athletic Facilities	\$3.12	
Redbird Arena	\$4.54	
Campus Enhancement	\$4.58	
Health Service	\$4.86	
Student to Student Grant	\$0.37	
Grant-in-Aid	\$0.15	\$35.05
Health Insurance (9 or more hrs.)	\$88.00	\$88.00
Examples:		
3 semester hours	\$403.35	\$999.75
6 semester hours	\$806.70	\$1,999.50
9 semester hours	\$1,298.05	\$3,087.25
12 semester hours	\$1,701.40	\$4,087.00
16 or more semester hours	\$2,099.00	\$5,279.80

Summer Session Costs

The 1997 summer session costs for tuition and fees are the same as above, except students enrolled for 6 semester hours or more and graduate assistants with tuition waivers in effect on the eighth calendar day of the session will pay \$56.00 for insurance.

Auditors

Fees for students who take all courses as auditors without credit are charged at the rates shown above to a maximum of 16 hours.

Other Fees and Expenses

Registration Installment Fee	\$ 25.00
Late registration and/or late payment fee	25.00
—charged after scheduled dates	
Master's Thesis 499.01 (Audit)	99.40
Doctoral Dissertation 599.01 (Audit)	99.40
Graduation fee	25.00
—must be paid before published deadline	
Doctoral dissertation fee (microfilming)	50.00
Doctoral dissertation fee (copyright)	35.00
—optional	

Material Charges listed under course offerings in the *Graduate Catalog* and *Class Registration Directory* are optional. A student may supply his or her own materials and request the instructor in writing to waive the materials charge.

Resident/Non-Resident Status

A student who is not a resident of Illinois pays the non-resident tuition fee as indicated. All other fees are the same for non-residents. A student under 18 years of age is considered a non-resident if the student's parents are not legal residents of Illinois. A student over 18 years of age is considered a non-resident if the student is not a legal resident of Illinois at the time of registration. Personnel within Academic Records and Course Registration Services are responsible for determining residency. Tuition and fees are subject to change by action of the Board of Regents and the General Assembly.

Payment of Tuition and Fees

The University offers a registration installment plan for the payment of tuition and fees for the Fall and Spring semesters. For those selecting that option, a \$25.00 registration installment fee will be assessed, with approximately one-third of the total charges due at the time of billing, one-third about 30 days into the semester, and the balance about 60 days into the session. Students who advance register will be billed before the beginning of the semester. Students who register at the beginning of the semester will be billed at that time. The *Class Registration Directory* gives further information and lists specific dates.

Refund Policy

A registered student who officially withdraws from the University may receive a reduction of tuition and fees, including any advance deposit, according to the following schedule:

1. If withdrawal is prior to the first regularly scheduled class day, all tuition and fee charges are deleted.
2. If withdrawal is within the first fifteen calendar days after the first regularly scheduled class day, all tuition and fees minus a service charge of \$30.
3. If withdrawal is after the fifteenth calendar day but within the sixty percent point in time of the period of enrollment - a refund equal to the portion of the period of enrollment remaining, rounded downward to the nearest ten percent, less an administrative fee not to exceed the lesser of five percent of the initial tuition, fees, and other charges assessed the student or \$100.
4. If withdrawal is after the sixty percent point in time of the period of enrollment - no refund shall be made.

The University may designate shorter refund periods for summer session, special courses, and short courses.

All notifications of withdrawal or cancellation and requests for refunds must be in writing and addressed to Academic Records and Course Registration Services, Illinois State University, Campus Box 2204, Normal, IL 61790-2204.

A student who changes from full-time to part-time status or a part-time student who reduces the number of credit hours carried may receive a reduction of tuition and fees according to the following schedule:

1. If the reduction is on or before the fifteenth calendar day after the first regularly scheduled class day, all tuition and fees not applicable to the new part-time status will be reduced. A service charge is not applicable to a student who changes from full-time to part-time status.
2. If the reduction is after the fifteenth but no later than the thirtieth calendar day after the first regularly scheduled class day, twenty-five percent of the difference in tuition charge only is reduced.

The student may receive a refund of the insurance fee if the student demonstrates equal or better insurance coverage on or before the fifteenth calendar day after the first regularly scheduled class day.

A student whose course of study requires absence from campus for the entire term shall, upon proper application, receive refund of activity, health service, and athletic fees. The application for such refund must be made on or before the fifteenth calendar day after the first regularly scheduled class day.

Pursuant to guidelines established by the University, part or all of a student's tuition and fees may be refunded because of the student's death or disability, extreme hardship, or institutional error.

A student may receive a refund of tuition and fees if a scholarship is awarded which covers those fees. The application for refund must be made no later than 60 days after the close of the session.

A student may receive a refund of tuition and fees if the University declares him/her ineligible for enrolled status prior to the first day of regularly scheduled class.

The statement of the refund policy for university housing is a part of the housing contract.

Examples of the application of the refund policy may be obtained from the Student Accounts Office.

Students or parents who believe that individual circumstances warrant exceptions from published policy may appeal to the Associate Vice President for Student Affairs.

Confidentiality of Student Records

In accordance with the Family Educational Rights and Privacy Act of 1974, as amended, Illinois State University students have the right to review, inspect and challenge the accuracy of information kept in a cumulative file by the institution unless the student waives this right in writing. It also insures that records cannot be released in other than emergency situations without the written consent of the student except in the following situations:

1. to officials of other schools or school systems in which the student intends to enroll, upon condition that the student be notified of the transfer, receives a copy of the record if desired, and have an opportunity for a hearing to challenge the content of the record;
2. to authorized representatives of 1) the Comptroller General of the United States, 2) the Secretary of the Department of Education, 3) an administrative head of any educational agency, or 4) State educational authorities;
3. parents of a dependent student as defined in Section 152 of the Internal Revenue Code of 1954. (The student will be notified of any such request by University personnel contacting the student and/or by sending a letter to local and home address.);
4. organizations conducting studies for, or on behalf of educational agencies or institutions, provided the study is conducted in a manner that does not permit personal identification of parents and students by individuals other than representatives of the organization and that the information is destroyed when no longer needed for the purposes for which the study was conducted;
5. accrediting organizations to carry out their accrediting functions;
6. to comply with a judicial order or lawfully issued subpoena;
7. to other school officials, including faculty within the educational institution or local educational agency who have legitimate educational interests;
8. in connection with the student's application for, and receipt of, financial aid;
9. where the information is classified as directory information. The following categories of information have been designated by the University as directory information: name, address, telephone number, date and place of birth, photographic image, major field of study, class, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance and course load status, candidacy for degree, degrees (including date awarded) and awards received, and the most recent previous educational agency or institution attended by the student. If you do not wish such information released without your consent, you should notify the Registration Office, 209 Julian Hall, Campus Box 2204, prior to the first day of classes.
10. disclosure is in connection with a health or safety emergency, under conditions described;
11. disclosure is to an alleged victim of any crime of violence as that term is defined in Section 16 of Title 18, United States Code.

Questions concerning this law and the University's policy concerning release of student information and procedures for contesting the content of cumulative files may be directed to the University Legal Counsel, Hovey Hall 208, Campus Box 1010, (309) 438-8999.

STUDENT SERVICES

Student Health Program

The Student Health Program consists of two components: 1. The On-Campus Student Health Service and 2. A comprehensive low cost Student Health and Accident Insurance Plan that supplements services available through the Student Health Service. All students who register for one or more credit hours during the Fall and Spring semesters and for the summer session and all graduate assistants with a tuition waiver pay a Health Service Fee. Regarding health insurance, all students who register for 9 or more hours during the Fall and Spring semesters by the fifteenth calendar day of classes (or for 6 or more hours by the 8th day of the variable length summer session) and all graduate assistants with tuition waivers are assessed a health insurance premium.

On-Campus Student Health Services

Students who register for one or more credit hours and pay the Health Service fee are entitled to use all the services at the on-campus Student Health Service for the entire semester. Spring semester students who do not plan to attend the summer session classes may obtain prepaid summer health care if they pay the appropriate health fee. Enrolled students may purchase Student Health Service access for spouses if they pay the fee. All optional health fees are payable at the Student Health Service.

The Student Health Service is located on the second floor of the Student Services Building on the corner of College Avenue and University Street, just west of Bone Student Center. The program is fully accredited by the Accreditation Association for Ambulatory Health Care, Inc. Health care at the clinic is comparable to that offered by most private community physicians. It is staffed by licensed physicians and registered nurses. Services also include a diagnostic laboratory, health prevention, x-ray and pharmacy. Students wanting to use the clinic should call to schedule an appointment (438-2778) and bring their Illinois State Student ID cards when checking-in.

Complicated illnesses or injuries requiring surgery or long term care will usually be referred to an outside physician. New students who have chronic medical conditions such as asthma, diabetes, ulcerative colitis, or epilepsy, which require long term and projected treatment, should retain the services of private physicians for the continuing supervision and management of their condition. The Health Service will be glad to furnish supportive care and assist the student's private physician in the student's care if the private physician furnishes written findings and instructions. There are competent medical specialists plus two hospitals in the Normal-Bloomington area that are equipped to handle medical problems should they arise. Information regarding medical services can be obtained by contacting Student Health Service, Main Reception Area in the Student Services Building, (309) 438-8655.

Student Health and Accident Insurance

The **Student Health Insurance Fee** provides a health and accident insurance policy intended to meet the needs of students without other insurance or to provide 100 percent coverage for insured expenses by coordinating with a family policy. Coverage is world-wide. The policy includes a \$250,000 maximum, a \$1000 stop loss provision designed to provide catastrophic coverage while limiting out-of-pocket expenses, and a \$50.00

deductible. This deductible is waived if other insurance is also in force. The schedule of benefits includes services for hospital inpatient and outpatient use including emergencies, surgical and anesthesia fees, doctor's charges, consultation expenses, lab and x-ray expense, and ambulance services. A complete schedule of benefits may be obtained from the Office of Student Insurance in the Student Services Building, Room 230.

Student insurance coverage begins the Thursday prior to the first day of regularly scheduled fall classes and 48 hours prior to the spring semester or the summer session. This coverage is terminated on the first day of classes of the next regularly scheduled term. Continuous year-round coverage is available if the student maintains University registration at 9 or more hours during the first and second semesters and applies for summer coverage at the Student Health Insurance Office prior to the expiration of spring coverage. A summer insurance fee will be assessed in tuition and fees only by registration of 6 or more credit hours prior to the 8th calendar day of the variable length summer session. An insured student who graduates may purchase one additional term at the group rate by applying prior to graduation day. This policy contains no extension of benefits into a non-covered semester for any condition. Extension of coverage for existing conditions, such as maternity, is available through the conversion option, details of which can be obtained from the Student Insurance office. Although dependent coverage is not included in the Student Plan, the Student Insurance Office can provide suggested alternatives for students needing dependent coverage.

It is strongly recommended that students remain enrolled in this plan even if other health insurance is present. A request to cancel this insurance plan is permitted during the first 15 calendar days of each semester, 8 days during the summer session, for those students who prove they have comparable insurance coverage (insurance I.D. card or copy of policy) and complete the required petition in the Student Insurance Office. However, experience has often shown that the premium for the Illinois State plan is less than out-of-pocket bills that many have to pay because of higher deductibles and co-insurance provisions in their own policy. Additionally, students sometimes lose coverage through their parent's plan because of age limitations, changes in dependent status, or changes in employment of parents. Thus, it can be more economical to remain enrolled in the Illinois State plan.

The above information is a summary of benefits and enrollment procedures. Persons desiring specific information about the Illinois State Student Health Insurance Plan should contact the Student Insurance Office in the Student Services Building, Room 230, (309) 438-2515.

Living Accommodations

Students with disabilities are requested to contact the Director of Disability Concerns, Fell Hall 388.

On-Campus Apartment Living

Two apartment complexes provide students with an environment conducive to both personal and academic growth. Single graduates and qualifying upperclass students, as well as married students and students with a dependent child or children,

are eligible to occupy these unfurnished apartments. The complexes, Cardinal Court and 300 Shelbourne Drive, offer a quiet environment, community atmosphere, excellent maintenance service, spacious grounds, and good proximity to academic buildings.

For additional information and an application, contact the Office of Residential Life.

Residence Hall

The University has thirteen residence halls providing living accommodations for approximately 7,700 students. These facilities include spaces accessible to students with disabilities. Among the advantages offered by residence hall living are the convenience of location with meal service and the opportunity to select from various lifestyle areas, including graduate and upperclass lifestyles, quiet, non-smoking, Applied Computer Science, Wellness, and Business. The Graduate Student Lifestyle provides graduate students with the opportunity to live and interact with their peers. Beginning in the Spring, residence hall applications are automatically mailed to students who have been admitted to the University for the following academic year. Additional information regarding residence hall living may be obtained by contacting the Office of Residential Life.

Off-Campus

Apartments and rooms are available in the Normal-Bloomington community. The University has no participation in housing contracts issued to students renting space in private housing and does not participate in the inspection of any off-campus housing.

Financial Aid

General Information

Each year many Illinois State graduate students receive financial assistance in the form of grants, scholarships, loans, and employment. All financial aid is coordinated through the Financial Aid Office located in 231 Fell Hall. Office hours are 8:00 a.m. to 4:30 p.m. for telephone service. Client Relations Representatives see students on an appointment or walk-in basis from 9:00 a.m. - 4:00 p.m., Monday through Friday.

General Eligibility Criteria

To qualify for federal or state financial aid programs, an applicant must:

1. Be a citizen of the U.S. or a permanent resident.
2. Demonstrate financial need as determined by a need analysis method approved by the U.S. Department of Education (except for the Federal Direct Unsubsidized Loan).
3. Be enrolled as at least a half-time student (5 hours) in a degree-seeking program. Students not pursuing a degree (i.e., graduate student-at-large) are not eligible for federal or state financial aid.
4. Not be in default on a Perkins Loan (formerly National Direct Student Loan) or any guaranteed/federally insured student loan (GSL, PLUS, ALAS, SLS) approved by a guaranty agency.
5. Not owe a repayment to a federal grant program.
6. Make satisfactory progress toward a degree as defined by Illinois State University.
7. Be registered with Selective Service, if the student is a male at least 18 years old, born after 1959, and not currently an active member of the U.S. Armed Forces.
8. Not have been convicted of drug possession or distribution.

NOTE: A student may not receive federal or state financial aid from more than one institution at the same time.

Application Procedures

To be considered for financial aid at Illinois State University, students are required to obtain, complete and submit the Free Application for Federal Student Aid (FAFSA) or the Renewal FAFSA as soon as possible after January 1, 1997. The priority filing date for the FAFSA is **March 1, 1997**. Applications received after that date will be processed as staff time allows and awards will be made as long as program funds are available.

Income and asset information generated by filing the FAFSA is used to determine the applicant's eligibility for assistance. List Illinois State University as your first school choice. Our title IV school code is 001692. The Department of Education will release your FAFSA to the state agency so you will be considered for state grant assistance. There is no separate institutional financial aid application.

GRANTS AND SCHOLARSHIPS

Grants and scholarships are available on a limited basis through federal, state, institutional, and private sources for graduate students. Federal gift aid programs include veterans' benefits, fellowships, and assistantships. State scholarships include Special Education Scholarships, Illinois Military Scholarships, General Assembly Scholarships, and National Guard/Naval Militia Scholarships. Illinois State grants and scholarships include tuition waiver fellowships which are awarded to students who, although not selected for other fellowships, show promise for success. These awards are made by the academic departments and the International Studies Office. The Dean of Graduate Studies awards a limited number of tuition waiver fellowships to minority students who show promise for success and are particularly deserving of assistance in meeting their educational objectives. Tuition waiver fellowships are also awarded as part of a graduate assistantship contract. Private agencies including clubs, foundations, organizations, corporations, and churches may also offer limited assistance to graduate students.

Research and Professional Development Program: Small grants for graduate students' research and travel to present the results of research are available through the Graduate School under the sponsorship of the Graduate Student Association.

The Ada Belle Clark Welsh Scholarship: The Ada Belle Clark Welsh Scholarship Fund provides a one-time award of approximately \$2500 to women with undergraduate degrees who show promise and are deserving of a graduate educational opportunity in the field of liberal arts and humanities, including study for teacher preparation or improvement. Specific criteria shall include, in order of importance: a record of academic excellence, evidence of career orientation, and need. Application forms may be obtained from the Graduate School office. Applications must be received in the Graduate School office by March 15.

Ora Bretall Scholarship: Ora Bretall Scholarships will be awarded on a one-time basis to persons enrolled in graduate programs at Illinois State University whose proposals for master's thesis or doctoral dissertation deal significantly with issues in educational theory or philosophy of religion, and who give promise of continued contribution to the development of educational theory and practice. Educational theory refers to study in pedagogy, educational foundations, curriculum and educational administration. Eligible students from all colleges in the University may compete for an Ora Bretall Scholarship.

As a general guideline, an award of \$1,000 for master's thesis and \$2,000 for doctoral dissertation will be made, although variation to this standard may be made by the

Scholarship Committee in relation to special aspects of the proposed thesis/dissertation project and funds available from the endowment.

The criteria for evaluation will emphasize demonstrated scholarship and potential as demonstrated by a) the applicant's academic record, b) the proposed thesis/dissertation project, and c) letters of recommendation. Application forms may be obtained from the Graduate School Office. Awards will be made twice a year. Applications must be received in the Graduate School office by September 15 or March 15.

Donald F. McHenry Fellowship: Donald F. McHenry Fellowship is a one-time award of \$6,000 to minority graduate students. A tuition waiver for the academic year will also be provided. Applicants must be U.S. citizens of African, Asian, Hispanic or Native American ethnicity, admitted to an Illinois State graduate program, and attend on a full time basis. Scholarship, financial need, evidence of leadership, and career goals will all be considered. Applications are available in the Graduate School Office and must be received by April 1.

Lela Winegarner Scholarship for International Students: Lela Winegarner Scholarships are awarded to promising international students who are pursuing careers of service to their country. The selection committee evaluates applicants' demonstrated scholarship and potential for using their education in a service capacity in their native country. All international students admitted to an Illinois State University Graduate School program whose career objectives meet the above criteria are eligible. The amount of the awards will vary in accordance with available funds. Applications are available in the Graduate School office and must be submitted by September 15.

Illinois State University Foundation Fellowship: The Foundation Fellowship for Graduate Students is an award of one-thousand dollars (\$1,000) to prospective students who have demonstrated a potential for academic excellence. Applicants must have attained a cumulative grade point average of 3.5 on a 4.0 scale on previous undergraduate and graduate course work. Applications will be accepted from those applying for, or already admitted to, a degree program. However, at the time of the award, successful applicants must be admitted to, but not have begun work on a degree program.

Applicants for degree programs interested in a Foundation Fellowship should obtain an application form from the Graduate School Office, in 310 Hovey Hall, and return the completed form with the required supportive materials to the same office. Applications must be received by March 15.

Illinois Consortium for Educational Opportunity Program: Awards are funded by the State of Illinois. The Illinois Consortium for Educational Opportunity Program (ICEOP) is a program to increase access of underrepresented students to graduate degree programs in Illinois universities. The ultimate purpose of the program is to increase the number of underrepresented faculty and staff in Illinois colleges and universities.

To be considered for an ICEOP award an applicant must be (1) an Illinois resident and a U.S. citizen or permanent resident; (2) African-American, Hispanic, Asian-American, or Native American; (3) the recipient of an earned baccalaureate degree; (4) of above average academic ability as evidenced by admission to a graduate professional degree program at a participating ICEOP institution; and (5) unable to pursue a graduate professional degree in the absence of an ICEOP award. Each award provides up to \$10,000 annually. Award recipients in doctoral programs may receive awards for up to four years to a

maximum of \$40,000. Those in master's or professional degree programs may receive awards for up to two years to a maximum of \$20,000.

Applicants for the ICEOP awards participate in a state-wide competition. Inquiries should be directed to the Graduate School (309) 438-2583, e-mail: gradinfo@ilstu.edu or Website at <http://www.grad.ilstu.edu/grad/home.htm>.

Illinois Minority Graduate Incentive Program: Awards are funded by the State of Illinois. The purpose of the Illinois Minority Graduate Incentive Program is to increase the number of African-American, Hispanic and Native American members of the faculties and professional staffs at Illinois institutions of higher education where there is severe underrepresentation of minorities. To be considered for an IMGIP fellowship an applicant must be (1) a citizen or permanent resident of the United States; (2) African-American, Hispanic, or Native American; (3) the recipient of an earned baccalaureate degree; and (4) accepted for admission to a doctoral program at one of the participating universities in fields where there is severe underrepresentation, specifically in the life sciences, physical sciences, engineering, and mathematics. In addition to full tuition and fees, each fellow will receive an annual stipend of \$12,500 and an annual allowance of \$1,500 for books, supplies, equipment, and travel for a maximum of three years.

Applicants for the IMGIP awards participate in a state-wide competition. Inquiries should be directed to the Graduate School (309) 438-2583, e-mail: gradinfo@ilstu.edu or Website at <http://www.grad.ilstu.edu/grad/home.htm>.

LOANS

Federal Perkins Loan: Federal Perkins Loans are available from funds provided jointly by the federal government and the University. Student cumulative loan amounts cannot exceed \$15,000 for the undergraduate program and \$30,000 for the student's total postsecondary program, including undergraduate and graduate studies. At Illinois State, funding seldom supports awards greater than \$1,000 per year. These loans are based on demonstrated financial need as determined by the Student Aid Report (SAR). No repayments are due and no interest accrues until six months (continuing borrowers) or nine months (first-time borrowers) after the student leaves school or ceases to be at least a half-time student. The interest rate is five percent per year and the borrower has up to ten years to repay the loan. The minimum repayment is \$30 per month.

Federal Direct Student Loan Program: This program, established by the Student Loan Reform Act of 1993, provides a new way for students to borrow money to pay for their college education. As a participant in the Direct Loan Program, the University will receive loan funds directly from the U.S. Department of Education and disburse them to eligible student borrowers. For graduate students, there are two kinds of direct loans. 1) the Federal Direct Loan; and 2) the Federal Direct Unsubsidized Loan. The student must complete the Free Application for Federal Student Aid (FAFSA) or the Renewal FAFSA. The subsidized Federal Direct Loan program is a need-based program. The unsubsidized Federal Direct Unsubsidized Stafford Loan provides Stafford eligibility to students who demonstrate little or no financial need. The student is responsible for payment of the interest from the date the loan is disbursed. To qualify for a Federal Direct Loan, the student must be enrolled for a minimum of five hours per term to be covered by the loan (including the summer session).

A graduate student may borrow \$8,500 per class level for up to five years. The Federal Direct Stafford Loan aggregate maximum is \$65,500 (subsidized and unsubsidized loans) including

amounts borrowed as an undergraduate. These amounts are maximums for the award year -- the fall semester, the spring semester, and the summer session, in that order. If the student borrows the maximum amount for fall and/or spring 1996-97, that student will have NO loan eligibility for the summer session 1997 unless he or she advances a class level that increases his or her loan eligibility.

Class levels are categorized as follows: 0-18 hours earned, first year graduate; 19-36 hours, second year graduate; 37-54 hours, third year graduate; 55-72 hours, fourth year graduate; 73-96 hours, fifth year graduate.

Borrower Counseling: First-time Federal Direct Loan borrowers are required to participate in entrance counseling prior to receiving the first disbursement of their loan. The purpose of this counseling is to emphasize your rights and responsibilities as a first-time borrower. Prior to leaving college (either by graduation or withdrawal) you are required to participate in exit counseling to receive important information about repayment, consolidation, deferment and other matters, and to have the opportunity to ask questions about your specific situation.

Repayment provisions for a Federal Direct Loan are outlined on the promissory note. The note should be read carefully, since provisions may differ. First time borrowers pay a variable rate of the 91-day Treasury-bill rate plus 3.1 percentage points, with a cap of 8.25%, adjusted annually. Repayment begins six months after graduation or the student ceases to be enrolled at least half-time.

Students who borrow under the Federal Direct Unsubsidized Stafford Loan program are responsible for the accrued interest on the loan while they are in school. They may choose between actually making monthly or quarterly interest payments or capitalizing the interest (adding the accrued interest to the loan principal). Terms and loan limits are the same for the subsidized and the unsubsidized Federal Direct Loans and the two loan types may be combined up to the award year and aggregate limits.

Employment

Drug-Free Workplace Policy: In response to and in compliance with the federal Drug-Free Workplace Act of 1988, Illinois State University reaffirms its commitment to prevent and prohibit the use and abuse of controlled substances on the campus or within facilities owned, operated, or controlled by the University. The following statement shall be considered a University policy applicable to all employees: the unlawful manufacture, distribution, dispensing, possession, or use of a controlled substance is strictly prohibited upon any property owned, operated, or controlled by Illinois State University. Violators will be subject to University disciplinary action consistent with existing University policies, rules, regulations, and employment agreements.

Graduate Assistantships: Graduate Assistantships are available in most of the University departments. In addition, assistantships are available to men and women who serve as counselors in the University residence halls. In each instance, the graduate assistant is assigned responsibilities that contribute directly to the individual's professional career. Students must be admitted to a specific graduate degree program to be awarded an assistantship. The academic requirements for graduate student assistantship require a B average for the last 60 semester hours of undergraduate work or a GRE score of 1000 on the combined verbal and quantitative sections for appointment for master's degree students. Graduate assistants who provide classroom instruction must have their oral English language proficiency certified by the

Department Chairperson prior to beginning their duties. Graduate assistants on full assistantships requiring 20 hours of work each week may not be employed in any other capacity by Illinois State. Those graduate students with less than a full assistantship may work additional hours on campus as student employees but only up to a total of 20 hours per week. Applications for graduate assistantships should be made to the student's departmental office. Applications are also received in the Graduate School for non-departmental appointments. This file is made available to interested employing units. A central listing of available graduate assistantship positions is posted on the job board in the Student Employment Area of the Financial Aid Office, 238 Fell Hall.

A graduate assistant must maintain at least a 3.00 each term and a 3.00 cumulative average in order to continue to keep the assistantship. If a graduate assistant's semester average drops below 3.00, the assistantship should be terminated by the employing department. In special circumstances a request for an exception can be made to the Graduate School.

The registration fees for a graduate assistant are the same as fees assessed for any other graduate student; the insurance fee is assessed for each graduate assistant with a tuition waiver and at least one registered credit hour. Graduate assistants also receive a tuition waiver fellowship.

Graduate assistants registering for audit credits only will not have the insurance fee automatically assessed. Those graduate assistants must contact the Student Insurance Office before the 15th day of each semester and the 8th calendar day for summer to pay premiums. If the audit only semester is in the fall, graduate assistants need to have paid premiums for summer student insurance coverage.

Federal Work-Study Program (FWS): This federally-sponsored program enables those students with demonstrated financial need to earn a portion of their expenses while they are enrolled at Illinois State University. The federal government pays 70 percent of the Work-Study student's earnings; the employer pays the balance. A student employed ten to twenty hours per week can usually expect to earn between \$1,000-\$2,100 during an academic year. Hourly rates for on-campus positions range from \$5.15 to \$8.40 per hour depending on the responsibility of the position. These rates are subject to change according to state and federal legislation. Work-Study students may find jobs on campus (food service, Library, Student Center, departmental offices, etc.) or for non-profit off-campus agencies (hospitals, youth centers, county or city government, elementary or secondary schools, etc.). Work-Study positions are posted on the Job Board located outside 238 Fell Hall. Refer to the application procedures regarding eligibility for College Work-Study. Students contact the employer for an interview. If hired, state and federal withholding tax forms must be completed in the Payroll Office, 101 Hovey Hall. Work-Study employers must also complete and return a Student Employment Form and an INS Form I-9 before the student may begin working. Students are not permitted to earn more than the Work-Study eligibility stated in the student's award letter.

Regular Employment: Graduate students who desire to work on or off campus are eligible for regular part-time employment positions. The Financial Aid Office has information about these employment opportunities posted on the Job Board located outside 238 Fell Hall.

Professional Practice: Professional Practice (Cooperative Education and Internship), a university-wide program of the Career Services Center, provides students with an opportunity

to earn academic credit while gaining professionally supervised work experience in business, industry, government and other agencies and institutions. Cooperative Education is a paid, educationally-related work experience in which students either alternate campus study and work experiences or undertake them simultaneously. Internship, the other form of Professional Practice, is usually an unpaid experience. Students interested in Cooperative Education or Internship should contact their department coordinator or the University Professional Practice Office of the Career Services Center.

Immigration Reform and Control Act of 1986: It is the policy of Illinois State University to comply with the Immigration Reform and Control Act of 1986. Therefore, all employees must furnish documentation prior to employment to establish both their employment authorization and identity. All employment is contingent upon a review and verification of such documents.

Veterans Services

The Office of Veteran Affairs, located in 209 Julian Hall, advises Veterans and dependents on matters relating to educational benefits and also handles the correction of payment problems. Certain dependents of deceased war veterans may be entitled to educational benefits from the Veterans Administration. If a student seeks such benefits, the Office of Veterans Affairs should be contacted.

Repayments and Refunds

Federal law requires that the University refund to a student who is attending the institution for the first time and who officially withdraws from the University prior to the 60 percent point in time in the period of time for which the student has been charged, not less than that portion of tuition, fees, room and board, and any other charges assessed that remain on the last recorded day of attendance, rounded downward to the nearest ten percent, less any unpaid charges, and less an administrative fee not to exceed five percent of the tuition, fees, room and board and other charges, or \$100, whichever is less.

A registered student who officially withdraws from the University may receive a reduction of tuition, fees, room and board according to the University refund policy. If the reduction produces a credit balance in the student's account, the Financial Aid Office will determine if the student received any title IV aid funds. If the student received any title IV aid funds, the credit balance will be used to restore funds to title IV program accounts in the following order; Federal Direct Stafford Loan, Federal Direct Unsubsidized, Stafford Loan, Perkins Loan, College Work-Study. If the student did not receive any title IV aid funds, the credit balance will be restored or refunded in the following order: state aid funds, institutional aid funds, private aid funds, the student. For the Summer Session, the above guidelines will be applied in a corresponding manner to determine the amount of repayment to financial aid funds due to withdrawal.

Regardless of the amount of repayment, any student withdrawing from a class at any point in the term may violate the Satisfactory Progress Policy and become ineligible to receive future aid. For determining student status, refer to the Satisfactory Progress Policy.

Check Distribution Information: Credit balance checks for aid in excess of amounts owed the University will be mailed by the Student Accounts Office throughout the academic year. Students should be financially prepared to buy books and pay other "start up" costs.

Before any campus-based aid (i.e., Perkins Loan) will be credited to the student's account, the student must have received and returned a signed copy of their award letter to the Financial Aid Office. Perkins Loan recipients must also complete a Personal Data Form.

First-time Direct Loan borrowers must fulfill the entrance counseling requirement (see statement on Borrower Counseling).

Students who are absent from their regular campus address because of an internship or cooperative education experience, etc., should notify the Student Accounts Office and specify their name, social security number, and the address to which any check is to be mailed.

Confidentiality and the Release of Information

The Financial Aid Office will release information about the financial status of a student to those parties within the University concerned with financial welfare as related to the student's attendance at Illinois State. Inquiries from off-campus agencies and/or landlords will be answered by Financial Aid staff only if the student has completed, in advance, a "Consent to Release Information" form available in the Financial Aid Office. To protect the confidentiality of the student's records, the Financial Aid Office will request proper identification in person before releasing any information concerning the student's financial aid status.

Satisfactory Progress Required for Continued Financial Assistance

The following University policy applies to both graduate and undergraduate students:

1. Illinois State University requires satisfactory progress toward a degree as an eligibility requirement for financial assistance.
2. The amount of any financial aid award is based on a number of factors, including the number of hours in which the student is enrolled at the time funds are disbursed.
3. For purposes of this policy, academic term is defined to include the summer, spring and fall terms.
4. A student must have **earned hours** (A) equal to 75 percent of the total hours attempted at his or her current degree level (i.e., undergraduate and graduate credits cannot be commingled) to be considered as eligible under this policy. **New students** (B) will be given an adjustment period. If a new student does not earn 75 percent of the **hours attempted** (C), the student will be considered on probation but aid will not be withdrawn.
5. A student's eligibility is terminated at the point when total hours (D) attempted equal 180 for the bachelor's degree, 50 for master's degree, or 75 for doctoral degree.
6. This policy is applicable to all students receiving University administered financial aid funds during any academic term. Categorical exceptions approved by the Provost will be handled by the appeal process.
7. Prior to the beginning of each academic term, the Director of Financial Aid will review the eligibility of applicants. Those in violation of this policy will be notified in writing of their eligibility status.
8. Reinstatement is available automatically by earning additional hours at Illinois State and meeting the 75 percent standard, or by appeal. The appeal procedure must be initiated by the student by obtaining a Satisfactory Progress Appeal Petition from the Financial Aid Office and returning the completed form with documentation to that office PRIOR to the next academic term for which the student will be enrolled.

NOTE: Students should consult the appropriate section of the University catalog for academic policies and graduation requirements.

Definitions: The following definitions apply to the above policy and are referenced to the appropriate section.

- A. For undergraduates, **earned hours** are the sum of hours for which the student has earned a grade of A-D, CR, or CT, (including repeats). For graduates, **earned hours** are the sum of hours for which the student has earned a grade of A-C, CR, or CT. Withdrawals, incompletes, audits, and failures are not earned hours. Note: A limited number of DE (deferred evaluation) grades are considered as earned hours for this policy.
- B. A **new student** is defined as a Freshman with 0-20 hours attempted at Illinois State.
- C. The phrase **hours attempted** is defined as the sum of the hours for all Illinois State courses for which registration charges were incurred.
- D. Transfer hours will be included in hours attempted used in number 5 of the above policy.

Note: For further information, students should refer to the Illinois State University Financial Aid Information Guide or contact the Financial Aid Office. Changes in federal, state and institutional policy could affect information printed in this publication.

Student Life and Services

University Policy Manual: The University Policy Manual contains University policies and procedures including those approved by the Academic Senate. Also included are operational policies, the Code of Ethics, resolutions, statements and special committees. Copies are available in departmental offices.

Student Handbook: The Student Handbook is made available to all new and continuing students at Illinois State University. Contained within The Student Handbook are descriptions of activities and services available to students as well as policies and regulations which are important for students to know and understand. The Handbook enumerates student rights and responsibilities within the University community.

Disability Concerns: The Disability Concerns Office purpose is to assist persons with disabilities to become an integral part of the University community. Persons with disabilities refers to those individuals who have a spinal cord injury, cerebral palsy, arthritis, alcoholism, chemical dependency, multiple sclerosis, spina bifida, cardio-vascular problems, asthma, epilepsy, sickle cell anemia, learning disabilities, hearing impairment, visual impairment, and many others. All information regarding a person and his/her disability is confidential. Each student must provide documentation of disability to the office and his/her needs will be assessed in consultation with the Director and a plan for appropriate accommodations made.

Information regarding Illinois State housing options, special parking, and campus accessibility related to persons with disabilities is available through Disability Concerns. Examples of services provided include such things as: readers, sign language interpreters, wheelchair pushers, peer tutors, brailists, and a list of persons interested in being Personal Assistants. Persons with disabilities are encouraged to contact the Director of the Disability Concerns Office. The Illinois State 504/ADA Coordinator is located in this office and questions or concerns related to Sec. 504 or Americans with Disabilities Act should be addressed to the Director. Disability Concerns Office is located in Fell Hall,

Room 350, Telephone 309-438-5853 and TT/TDD 309-438-8620 (TT/TDD Text Telephone/Telecommunication Device for the Deaf).

Student Judicial Office: 202 Fell Hall, (309) 438-8621. The Student Judicial Office provides administrative support for the Student Code Enforcement and Review Board (SCERB), the University Hearing Panel, and the Student Grievance Committee. These committees are responsible for the enforcement of the Student Code of Conduct and the review of student grievances. For further information concerning student rights and responsibilities, the Student Code of Conduct, and the student grievance procedure, consult the *Student Handbook* available through the Office of Student Life and Programs in the Student Services Building (third floor) or the Student Judicial Office.

Child Care Center: Open only to students, Illinois State Child Care Center offers high quality, affordable child care services to children 2-10 years of age. It is open during the fall, spring and summer semesters. Hours are 7:30 a.m. to 5:00 p.m. during the fall and spring; 7:15 a.m. to 4:30 p.m. during the summer. The center is licensed for 40 children at a time with care provided in 124 Turner and 105 Fairchild. Call 438-5026 for an application or visit 124 Turner Hall and ask for the Director.

Bone Student Center/Braden Auditorium: Bone Student Center provides facilities, programs and services, primarily for students, which complement the educational goals of the University. Included within the Center are: McDonald's, Pizza Hut and other restaurants, the bookstore and other merchandise centers, ID Card Office, Info Centre, photo copying, bus, and event ticket sales, automatic teller machines and check cashing, lounge areas and multi-purpose rooms for student activities and other programs. Adjacent to the Center, are a Bowling and Billiard Center and a 500-space parking lot. Braden Auditorium seats 3,457 on three levels. It is an academic and public service facility and the entertainment center for the University and the community.

Multicultural Affairs: The Illinois State University Office of Multicultural Affairs is part of the Division of Student Affairs. The mission of the Office is to raise cultural awareness in all students, faculty, and staff and to facilitate a cohesive environment for underrepresented ethnic minority populations. The Office sponsors a wide variety of programs, including the traditional theme months, and year-long programming for women, African Americans, Latinos/Latinas, Asian Americans and Native Americans, in conjunction with MECCPAC (Multi Ethnic and Cultural Co-Curricular Programming Advisory Committee). The Office plays a role in developing student recruitment and retention programs as well as collaborates with faculty and academic departments to enhance in and out of classroom experiences.

The Multicultural Center is a component of the Office of Multicultural Affairs and is designed as a place for the entire University community to use. It offers two conference rooms that can be reserved for meetings, seminars, or other gatherings, a library with a growing collection of multicultural holdings and a relaxed atmosphere for studying and meeting friends. Any student or University personnel requiring help or information about available services is encouraged to contact the Director of the Office of Multicultural Affairs.

Counseling and Career Services: As of January 1996 the Counseling Center and Career Services Center have been combined into one administrative unit. The overall goal of the unit is to assist students in acquiring those values, attitudes, skills, and experiences which will enable them to maximize their

opportunity for life-long academic, career, and personal development. We provide comprehensive psychological and counseling services, career planning, professional practice (internship and cooperative education), and networking assistance (placement) for post-graduate employment and/or education to assist students in the transition from the academic community to the world of work. Students can access these counseling and career services either on the third or first floor of the Student Services Building (Counseling 438-3655; Career 438-2200). Each counseling and career services is described below.

Counseling Services: A full range of counseling services, including personal and career counseling, group counseling, and crisis intervention are provided to students on a voluntary, confidential, and no-fee basis. The Center is also involved in the training of undergraduate and graduate students. All services are provided in a way which supports cultural and racial diversity and which fosters an environment which respects individual and group differences.

Career Planning: Career planning provides a variety of career related experiences to help students with the different career stages. In assessing career direction, students become aware of interests, skills, values, and other personal characteristics and begin to integrate these into a career identity. They may choose to explore University resources and career options consistent with their career identity. Students are also encouraged to examine ways of relating their major and interests to the world of work. Finally, students begin the process of implementing decisions, setting career goals, developing strategies for goal attainment and carrying out these strategies. Career counseling, computerized career guidance, interest inventories, and a career choice class (IDS 106) are offered to assist in career planning.

Professional Practice: (Cooperative Education and Internships) The nationally recognized Professional Practice Program offers academically qualified students an opportunity to integrate classroom study with one or more terms of paid or unpaid learning experience in a work environment related to the student's academic and career goals. Nearly 4000 organizations in the U.S. and foreign countries have served as learning sites.

Cooperative Education, one form of Professional Practice, is an educational pattern which allows students either alternating or parallel periods of campus study and paid, educationally related work experiences.

Internship, the other form of Professional Practice, is usually unpaid and typically occurs only once during a student's undergraduate career.

Students interested in enrolling in Professional Practice (Cooperative Education or Internship) should contact their department coordinator or the Professional Practice Office in the Career Services Center early in their undergraduate career so that credit-generating work experiences can be arranged well in advance of placement. A maximum of 16 semester hours may be used toward graduation at the undergraduate level.

Placement/Employee Relations: Placement/Employee Relations provides individual employment counseling, computerized resume referral, job listings, on-campus interviewing, and employer outreach to help students identify employment opportunities.

Senior Days and other special events are offered to help students meet employers from business, industry, government, education and non-profit agencies. Assistance is also provided

to students considering graduate or professional school. Placement files containing letters of recommendation are maintained and distributed by request to employers. In addition, resume critiques and mock interviews are offered.

Parent Services: Parents and family members who need assistance can contact the Office of Parent Services. This agency develops programs which promote involvement in the University and its educational mission as well as providing information about University resources. The Parents Association Advisory Board, composed of parents representing various geographic locations, works with the Office of Parent Services as a liaison between family members and the University.

University Research Office: The University Research Office (URO) is the coordinating center for faculty, staff, and students who engage in activities financially supported from federal, state, or private sources to conduct research, instruction, and creative, or public service activities. Projects supported from external sources constitute an important part of the University's programs of instruction, research, creative endeavor, and public service. The URO serves to facilitate these programs and is the designated liaison between Illinois State University and sponsoring agencies. The office has signature authority for grants and contracts. The URO is responsible for submission of grant and contract proposals, post award administrative management of funded programs, and compliance with state and federal regulations pertaining to sponsored activities.

Institutional Advancement

Alumni Services: Alumni Services offers activities and assistance to all Illinois State University alumni and coordinates all programs of the 125,000 member Alumni Association. With offices in the Bone Student Center and on Michigan Avenue in Chicago, Alumni Services' primary goal is to act as liaison between the University and its alumni locally, nationally, and throughout the world.

The Illinois State Alumni Association sponsors or co-sponsors a variety of services and events to encourage alumni to remain involved with their alma mater, including,

Illinois State Today, the alumni newspaper

Geographic chapters

Affinity clubs

Reunions, Homecoming, special events

An auxiliary office in downtown Chicago

Credit cards

Insurance opportunities

Awards

Alumni records and directory services

In 1993 the Association launched an exclusive alumni membership organization called *Alumni Plus*, which provides additional benefits to alumni and helps support the activities of the Association.

Current students have the opportunity to become involved through the Student Alumni Council (SAC), a registered student organization with headquarters in the Alumni Services office in Bone Student Center. SAC is open to all undergraduates and serves to link Illinois State University's past, present, and future. Members of the organization are active in many campus events and help to promote University pride.

Development Office: The Development director and major gifts staff are located in 401 Hovey Hall. The Office of Development is responsible for coordinating long-range pro-

grams to encourage private giving from the broad range of the University's constituencies, i.e., alumni, parents, students, faculty and staff, friends and corporations and foundations. The financial support generated through private giving provides the margin of excellence for Illinois State by providing resources for scholarships, faculty rewards, departmental programming, facilities and equipment and endowments.

Advancement Services: Located in Rambo House, Advancement Services provides support related to alumni and development programs and activities, including maintenance of the Alumni-Development Information Network (ADIN). The ADIN contains the biographical records of Illinois State University alumni and all donors to the University (over 200,000 records) and also the general ledger for the accounting of the Illinois State University Foundation through which all donations are processed. The database supports the private fund-raising activities of Institutional Advancement and other campus units. Advancement Services also provides assistance to development staff and others on campus through research related to donor prospects and other private fund-raising efforts.

Donor Relations is located in Hovey Hall 401, includes stewardship services and development events, and is responsible for thanking and recognizing donors to the University. This unit manages an established major donor club plan and assists with cultivation events throughout campus.

Illinois State University Foundation: The Illinois State University Foundation is a not-for-profit corporation chartered by the State of Illinois for the sole purpose of soliciting, receiving, holding, investing, and administering gifts, grants, real property, historical papers, collections, and other materials which support and enhance educational opportunities at Illinois State University. It also supports an office in Chicago and oversees the management of Ewing Manor.

Unrestricted gifts enable the University to achieve a higher level of quality because these resources can be distributed where the need is greatest. However, gifts and grants may be designated to support specific colleges, departments, and educational programs.

Bequests, charitable remainder trusts, and other planned and deferred gifts are also processed through the Foundation. Policies for the Illinois State University Foundation are overseen by an elected Board of Directors, comprised of alumni and friends of the University.

All gifts made to the Illinois State Foundation are tax deductible as provided by law. Further information about the Foundation may be obtained by contacting the Vice President for Institutional Advancement or the accounting/records staff in Rambo House.

University Communications: University Communications is composed of the following offices and programs: Publications, Printing Services, Licensing, Marketing and Editorial Projects, Copier Program, and Promotional Video.

The Publications office consults with requesting University units regarding their communication needs and works toward meeting those marketing needs while maintaining a quality project that best represents both unit and university through an established program of editorial and graphic standards.

Printing Services offers in-house printing at its Nelson Smith Building location and at its Rapid Print Centers in Old Union Building and DeGarmo Hall.

Licensing secures protection for the University's various intellectual properties, promotes the identity of the institution by granting licenses to use properties, and generates revenue from royalties paid by those who license the properties.

Editorial Projects produces various periodicals that promote Illinois State. Examples of this effort include *The Illinois State Community*, *Illinois State Scholar*, *Illinois State Today*, the University's annual report, *Points of Pride*, and *Competitive Advantage*.

The copier program through a contract with Xerox Business Services supplies copy equipment to campus offices and departments. Based on volume usage and specific needs, users are provided equipment to meet their needs including an automated reporting package to record number of copies.

Through an agreement with Instructional Technology Services/TV Productions, promotional videos are produced that support special events, student recruitment, alumni relations, and fund raising efforts.

A marketing communications campaign is conducted throughout the University to examine and enhance communication with specific audiences - alumni, employees, current students, potential students parents, media, donors, and the community. Teams have been created to undertake the analysis and to make recommendations.

Media Relations/News Service: The Media Relations/News Service office, located in Hovey Hall, produces and distributes information about Illinois State University to the news media and to faculty and staff through the News Service, the Illinois State Hotline and the Illinois State Radio Service. Media Relations/News Service acts as a liaison with reporters and assignment editors, plans news conferences and coordinates external communication to the news media.

The News Service prepares news releases and stories featuring the faculty, staff, students and programs at the University. The office also publishes *Report*, a weekly newsletter for faculty and staff. The News Service matches reporters with faculty and staff experts on a vast spectrum of subjects through the News Service *Resource Book* and through Profnet, a public relations tool on the Internet.

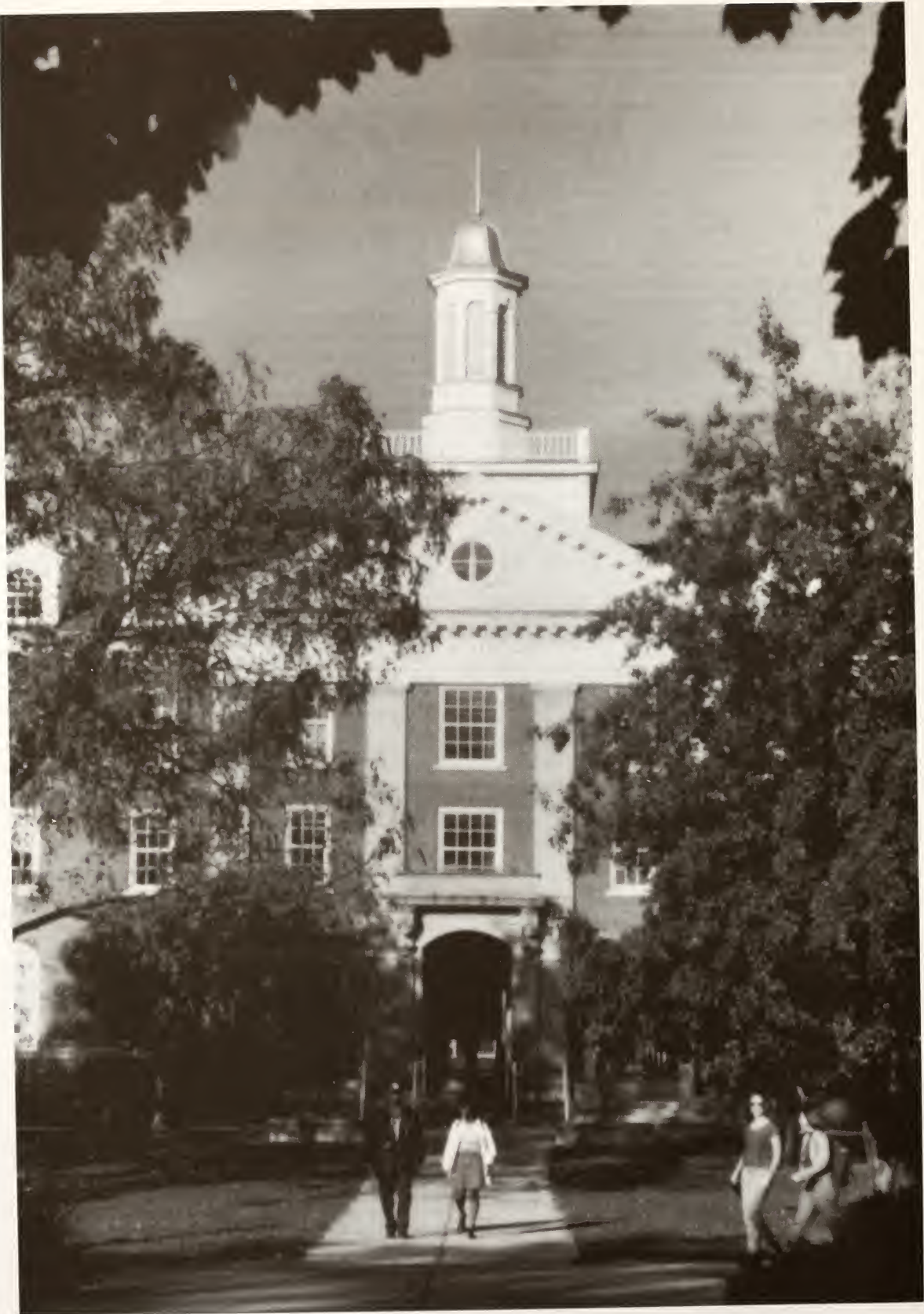
The Illinois State Hotline (438-8371) provides anyone with a telephone a quick source of information about important news at Illinois State University. The messages are updated frequently and contain information about upcoming events and news headlines for the campus community.

Using faculty and staff experts, the Illinois State Radio Service provides broadcast quality stories to more than 125 radio stations in Illinois, Wisconsin, Iowa and Missouri. Radio stations use a toll-free number to access the service, which is updated each week.

Media Relations/News Service also offers an on-line page on the World Wide Web that includes news releases; *Report*; and *Access*, a guide to using the services of Media Relations News Service. The Web address is www.ilstu.edu/depts/mediarel/

WGLT: Located in the Old Union Building, (309) 438-2255 or 438-8190; WGLT (89.1 FM) is a full-service public radio station licensed to Illinois State University and serving audiences in Central Illinois. An affiliate of National Public Radio, WGLT's music format is primarily jazz and blues. WGLT also includes coverage of local news and issues, as well as area concerts. WGLT produces many programs and interviews which feature Illinois State University faculty, staff and administrators.

University Events Coordination: University entertainment, including such events as Homecoming and Founders Day, is coordinated in the Division of Institutional Advancement, as well as cultivation and public relations events hosted by the University President and other campus units and staff.



ADMISSION

Admission Requirements

Admission requirements for the Master's, Specialist in School Psychology, Master of Fine Arts, Doctor of Arts, Doctor of Philosophy and Doctor of Education are given elsewhere in this catalog under the heading Fields of Study and Degrees Granted. Also, see the department sections.

Eligibility: A student who has completed work for a bachelor's degree or its equivalent, as determined by the Graduate Dean, or who will do so within one academic year at a college or university that is accredited by the appropriate regional accrediting association, may apply for admission to the Graduate School. While admission may be granted to a senior, only those who have received a bachelor's degree will be permitted to register in a degree program. However, seniors may be permitted to begin graduate work if they meet the conditions of the Seniors Taking Graduate Courses for Graduate Credit Policy. See section on *Admission to Master's Programs*.

Applications and Credentials: Each prospective student who wishes to take work for graduate credit must submit a completed Graduate Admission Application. Previous or continuing students at this University, students new to the University, and those enrolled in extension courses must file an application when beginning a program. In addition to the application, the following items are required:

1. Two official transcripts from each college or university other than Illinois State University at which graduate, undergraduate, or non-degree credit was earned. Individual departments may have the option of requiring transcripts for only the last 60 undergraduate hours used in computing the admission grade point average. The required documents should be received in the Admissions Office at least four weeks before the date of registration. Departments may have additional requirements.
2. GRE (Graduate Record Examination) General Test score report, for admission to most master's and all doctoral programs. Some departments require the GRE Subject Test also.
3. GMAT (General Management Admission Test) score report, for admission to College of Business graduate programs.
4. Three recommendations for each doctoral, and Art MFA applicant. Some master's degree programs may require recommendations also.

Two months should be considered the minimum period of time between filing of application and registration for classes. However, some departments do have specific dates when all materials must be on file. Application forms and instructions are available from the Office of Admissions, Hovey Hall 201.

Immunization/Medical Requirements: All students admitted to Illinois State University are required, by Public Act 85-1315, to provide proof of immunity for tetanus, diphtheria, measles, mumps and rubella. **Documentation of immunity must be complete and on file in the Student Health Service by the 15th calendar day of the entering semester.** Proof of immunity must include a tetanus/diphtheria booster within 10 years of attendance at ISU; two measles immunizations, both after one year of age and after December 31, 1968; one mumps immunization after one year of age and after December 31, 1967; one rubella immunization after one year of age and after December 31, 1968. **All immunization dates must be**

signed/certified by a physician or public health official. Immunization dates and certification can be documented on the Health History Report that is also required to be on file with the Student Health Service. Please note, that a physical examination is not required. International students are required by University regulations to also provide proof of freedom from tubercular disease. The Student Health Service **strongly recommends that all students have a TB -mantoux skin test within the year** prior to first attending the University; and **strongly encourages immunization against Hepatitis B** which is a series of three injections.

Information and instructions for meeting the above requirements are included with the Illinois State University Health History Report Form which is mailed to all incoming students. The Student Health Service recommends completion of the immunization information as soon as possible and no later than the first day of the month in which classes begin. Students not in compliance with the immunization requirements by the 15th calendar day of their entering semester will have subsequent semester registrations blocked and be assessed a \$25 administrative compliance fee. Further information can be obtained by calling the Student Health Service Preventive Medicine Clinic at 309-438-8560.

Readmission of Former Students: Graduate students who last attended Fall 1996 or before who wish to return to the University must apply for readmission through the Admissions Office. **Note: Beginning with attendance during Spring 1997, a readmission application is required after a lapse of attendance of one calendar year.** Students may request a new degree program on their readmission application. (Note: International students must contact International Admissions with any lapse in attendance.)

International Student Admission: International students may apply for either the fall or spring semesters or for the summer term. The University operates on a semester basis (16 weeks), a fall semester which begins the middle of August and a spring semester which begins in early January. In addition, the University offers a twelve-week summer term which begins in the middle of May.

International applications for the fall and spring semesters will be accepted as early as one year ahead but no later than three months before the term begins. The closing date for fall applications is May 15, for spring applications, October 15. Some departments have fall only admissions and others have earlier deadlines. Summer applications will be accepted up to April 1, six weeks before the starting date.

An international student holding the equivalent of a U.S. baccalaureate degree, as determined by the Dean of the Graduate School, from a recognized international institution of college or university level, may apply for admission. The admission of international students is governed by separate requirements, as outlined below.

An international student whose native language is not English is required to submit scores on the Test of English as a Foreign Language (TOEFL). No decision will be made on a student application until official test results have been received from Educational Testing Service (ETS). A department may establish a policy, subject to approval by the Dean of the Graduate

School, to waive the TOEFL requirement for students who have graduated or will be graduating from an accredited college or university in the United States, if the student has resided in the U.S. for at least one year at the time of admission.

The minimum TOEFL score required for international graduate admission is 550. Departments may require higher scores at their discretion. Any department may, because of the nature of study in the department, screen students with scores lower than 550. Those recommended for admission with scores lower than the minimum must be approved by the Graduate Dean. Students anticipating a teaching assistantship should submit scores on the Test of Spoken English. The TSE is administered in countries outside of the United States several times a year. There is a local test of the TSE called the SPEAK which is administered on campus. If TSE is not taken before arriving in the United States, the SPEAK can be taken upon arrival. However, since the testing is administered shortly before the beginning of the semester, the university cannot insure that the scores would be available by the beginning of the semester, and therefore, no assurance that a teaching assignment can be offered the first semester on campus. It is recommended that applicants take the TSE in their native country to provide information to the department well in advance.

In addition to the admission application, TOEFL, and materials listed above for U.S. applicants, international students must submit the following:

1. Declaration of finances showing source of support and official documentation of funds available for the first year's expenses.
2. Verification of a medical test with results indicating freedom from tuberculosis.

All items except one transcript in the native language must be in English. Upon receipt of the required materials, the Office of Admissions will submit the file to the major department for a decision. Admissions will send the Certificate of Eligibility for Nonimmigrant (F-1) Student Status with a notification of acceptance.

The Bulletin of Information for TOEFL and TSE and registration forms can be obtained in a number of cities outside the United States, usually at American embassies and consulates, offices of the United States Information Service (USIS), United States educational commissions and foundations, bi-national centers, and many private organizations such as the Institute of International Education (IIE), the African-American Institute (AAI), American-Mideast Educational and Training Services (AMIDEAST), and the American-Korean Foundation. If a bulletin can not be obtained locally, write to TOEFL/TSE Services, P.O. Box 6151, Princeton, New Jersey, 08541-6151, U.S.A. or ETS at <http://etsis1.ets.org/body/html>.

Information regarding test dates and application forms for the GRE (Graduate Record Examination) or the GMAT (Graduate Management Admissions Test) can be obtained from the following U.S.A. centers: (1) Illinois State University, University Assessment Office, 115 Julian Hall, Campus Box 2500, Normal, IL 61790-2500; (2) Graduate Record Examination, Educational Testing Service, P.O. Box 6000, Princeton, New Jersey 08541-6000; (3) Graduate Management Admission Test, Educational Testing Service, P.O. Box 6103, Princeton, NJ 08541-6103. Scores must be sent directly by ETS to Illinois State University, Office of Admissions, Campus Box 2200, Normal, Illinois 61790-2200 or ETS at <http://etsis1.ets.org/body/html>.

For assistance with admissions, transfer credits and academic standing, please address all inquiries to: Illinois State University, International Admissions, Office of Admissions, Campus Box 2200, Normal, Illinois 61790-2200, U.S.A. or <http://www.ilstu.edu/depts/admissions/>. For information regarding graduate assistantships, write to the chairperson of the department to which you are seeking admission. For assistance with immigration information, housing, travel or personal problems please write to: Director of International Studies, Illinois State University, Office of International Studies, Campus Box 6120, Normal, Illinois 61790-6120, U.S.A.

Types of Admission

The Graduate School recognizes two types of students who are eligible to enroll in graduate courses. These are (a) degree students, and (b) students-at-large. For specific requirements for degree students, refer to the individual degree description in this catalog. The only students eligible to take courses for credit at the terminal degree level (D.A., Ed.D., M.F.A., Ph.D.) are those admitted to a degree program.

Degree Student: A degree student is one who has been formally admitted to a program leading to a degree. A Master's degree student's admission may be unconditional, provisional or probationary. (See Master's degree section of this catalog.)

Student-At-Large: A student-at-large is one who does not seek a degree or has not been officially admitted to a graduate degree program. A student-at-large may enroll without submitting official transcripts to the Office of Admissions but is required to sign a disclaimer statement upon admission. The disclaimer statement reads as follows:

I certify that I have a baccalaureate degree from a college or university that is accredited by the appropriate regional accrediting association. I understand that my enrollment in graduate-level courses does not constitute admission to a degree program in the Graduate School at Illinois State University. I further recognize that there is no guarantee that credits earned from my enrollment as a student-at-large will be applicable to a degree at Illinois State University. All graduate courses taken as a student-at-large will be computed into the graduate grade-point average.

A student-at-large may register for courses for which he/she has the prerequisites, unless such registration is restricted by the department or the Graduate School. Courses at the 400 level in the College of Business are not open to students-at-large. If a student-at-large decides to pursue a degree at Illinois State, he or she may petition that previous courses taken may be accepted in meeting requirements for a degree. If the petition is recommended by the adviser and approved by the Graduate School, a limited number of courses may be counted toward a degree. Normally, petitions are not approved for more than twelve (12) hours but under special circumstances up to one-half of the hours of a master's degree program may be approved to be counted toward a degree. There is no guarantee that any course work taken as a student-at-large will be counted toward a degree program. It is recommended that students-at-large seek advice from the Graduate School or from any person responsible for advising students in specific graduate programs.

Tests Required for Admission

Master's Programs: All students except those seeking admission to the Departments of Art (Studio and Education), Foreign Languages, Industrial Technology, Music, Political Science, and Theatre must submit scores on the General Test of the Graduate Record Examination. In the departments of Communication, Educational Administration and Foundations and Specialized Educational Development, the GRE may be waived if the undergraduate GPA meets the established standards. Applicants to the Departments of Psychology and Sociology should also submit scores on the subject test in their field of study. Students seeking admission to Business departments should substitute the Graduate Management Admission Test (GMAT) for the above examination. Arrangements for taking these examinations can be made with the Illinois State University, University Assessment Office, 115 Julian Hall, Campus Box 2500, Normal, IL 61790-2500; or by writing to Graduate Record Examinations, Educational Testing Service, PO Box 6000, Princeton, NJ 08541-6000 or Graduate Management Admission Test, Educational Testing Service, PO Box 6103, Princeton, NJ 08541-6103 or ETS at <http://etsis1.ets.org/body/html>.

Specialist in School Psychology: Students seeking admission to the Specialist in School Psychology program must submit scores on both the General Test and the Psychology subject test of the Graduate Record Examination. Arrangements for taking these examinations can be made with the Illinois State University, University Assessment Office, 115 Julian Hall, Campus Box 2500, Normal, IL 61790-2500; or by writing to Graduate Record Examinations, Educational Testing Service, PO Box 6000, Princeton, NJ 08541-6000 or ETS at <http://etsis1.ets.org/body/html>.

Master of Fine Arts Program: Students seeking admission to M.F.A. programs should consult the section on the M.F.A. in this catalog.

Doctoral Programs: All students seeking admission to doctoral programs must submit scores on the General Test of the Graduate Record Examination and the appropriate subject test if required by the department. Information concerning this examination may be obtained at testing centers or by writing to Graduate Record Examinations, Educational Testing Service, PO Box 6000, Princeton, NJ 08541-6000 or ETS at <http://etsis1.ets.org/body/html>.

Certification Programs in Education

Administration and School Service Personnel Certificates: Individuals seeking certification through Illinois State graduate level programs must file the necessary documentation with the Office of Clinical Experiences and Certification Processes (CECP), College of Education, 310 DeGarmo. This should be done early in the program.

Certification for administrators and school service personnel may be earned only through completion of an approved University program. See the appropriate departmental adviser for the requirements of the programs in educational administration, school counseling and school psychology.

All applicants for certificates must pass an examination in the area of specialization which has been developed and administered by the State of Illinois. For further information see the certification specialist in 310 DeGarmo.

Teacher Certificates: Graduate students who are seeking a first teaching certificate at Illinois State University in the areas of Special Education or Speech Pathology must meet graduate-level requirements for the individual program. The requirements for general education and for major/minor fields of study will be reviewed by the Office of Clinical Experiences and Certification Processes on an individual basis. Two of these requirements are admission to teacher education and student teaching. These requirements are explained in this section.

Students seeking a first teaching certificate in the areas of Elementary Education, Junior High/Middle School Education, Secondary 6-12, or the Special K-12 areas of Art, Music and Physical Education can earn that certificate only through undergraduate course work. See the Undergraduate Catalog section, University-Wide Teacher Education Program Requirements, for an explanation of the requirements of these programs. Students who have already received a bachelor's degree in a non-teaching area can become certified by completing the necessary undergraduate requirements, usually through enrolling in a second bachelor's degree program.

Students already having a teaching certificate who wish to apply for an additional teaching certificate and who have had at least three months of successful teaching experience may request a transcript evaluation from the nearest Superintendent of an Educational Service Region for the particular certificate. Students should **not** write directly to the State Teacher Certification Board. Students who complete an additional certificate by course evaluation will **not** have completed a program approved by the State and the National Council for Accreditation of Teacher Education (NCATE) and may have difficulty obtaining a certificate in another state.

Admission to Teacher Education: All students seeking to complete certification requirements at Illinois State University must meet University standards for teacher education programs. Students must apply for teacher education and also apply to do student teaching through the Office of Clinical Experiences and Certification Processes, 310 DeGarmo Hall, by the established deadlines. The Application for Admission to Teacher Education and the Application for Student Teaching are separate procedures.

Students must meet the requirements for Admission to Teacher Education as outlined in the Undergraduate Catalog. University-Wide Requirements for Teacher Education. Contact the CECP Office, 310 DeGarmo, for further explanation of the requirements and/or conditions regarding eligibility for certification. Students must meet all of the requirements for student teaching before being assigned to do student teaching.

Students wishing to appeal decisions which affect their admission to or dismissal from a teacher education program or which have a direct bearing on their being recommended for certification, should contact the Office of Clinical Experiences and Certification Processes, 310 DeGarmo Hall. Also refer to a document entitled *Student Rights and Responsibilities* which is available from the above office.

ACADEMIC POLICIES AND PROCEDURES

Each student should assume responsibility for knowing the requirements for graduate programs and for complying with current policies.

Semester Plan

The University operates on the semester plan. The value of a course is, therefore, in terms of semester hours. A semester hour is assigned for three fifty-minute periods of lecture or discussion per week for a semester of 16 weeks. For laboratory, two 50-minute periods per week are necessary for a semester hour.

Academic Load

Nine to twelve hours is the usual load and fifteen hours the maximum load for a graduate student during the fall and spring semesters. In the twelve-week summer session the maximum load is twelve semester hours. Students are considered full-time if they register for nine (9) or more hours during the fall and spring semesters and six (6) or more hours in the twelve week summer session. Student fees are assessed on a per hour basis. If a student holds an assistantship the academic class load is adjusted accordingly. Scholastically, the ideal academic class load for a graduate assistant is nine (9) hours. An assistant wishing to take fewer than nine (9) hours must have a recommendation by his or her graduate adviser which is approved, in writing, by the Graduate Dean. Graduate Assistants taking more than twelve (12) hours must have the approval of his or her graduate adviser. The insurance fee will be assessed for every graduate assistant regardless of the number of hours enrolled. Subject to departmental approval, master's students writing theses who have completed all of their coursework and the 4-6 hours of Thesis 499 may register for only one hour of Thesis 499 or one hour of Thesis Audit 499.01 (if they qualify) each semester in order to maintain their graduate assistantship. Subject to departmental approval, doctoral candidates who have completed all of their coursework and the 15 hours of Dissertation Research 599 may register for only one hour of Dissertation Research 599 or one hour of Dissertation Audit 599.01 (if they qualify) each semester in order to maintain their graduate assistantship. Graduate assistants registered for only audit hours must maintain their insurance coverage by paying the insurance premium at the Student Insurance Office by the 15th calendar day of each semester and the 8th calendar day of the summer session. If the audit only semester is in the fall, graduate assistants need to have paid premiums for summer student insurance coverage.

Auditing Privileges

A student may register as an auditor in a class or classes if facilities are available. An auditor does not participate in the activity of the class, but is expected to attend regularly. An Audit (AU) designation will appear on the student's transcript when the instructor certifies that the student has attended the class on a regular basis. If the student has not attended regularly, a WX will be recorded on the transcript after the instructor has sent a written notification to the Registration Office that the student has not attended regularly. To register as an auditor, a student must register for the course. Then the student must get the instructor's signature on an auditor's permit which can be obtained from the Registration Office. Students must register to audit a course by the tenth day of classes in the semester with any exception having the approval of the chairperson of the department in which the course is offered and the Graduate Dean. The auditor fee is shown in the section on costs. Audited courses are considered part of the student's total load.

Commencement

Degrees are conferred and diplomas awarded after the close of each semester and summer session. Commencement is held twice each year at the end of each semester. Participation is voluntary. Graduate students who expect to complete degree requirements prior to the commencement may participate in that commencement. Any exceptions to this regulation must be approved in writing by the Graduate School. This regulation does not apply to doctoral students. All doctoral students must complete all requirements for the degree to participate in Commencement.

Upon receipt of a master's, specialist or doctoral degree from Illinois State University the student's major classification will be changed to student-at-large unless the student applies for a second master's degree or an advanced graduate degree.

Grading System

Instructors assign a grade in each course for which the student is registered and are responsible for correcting any error in grading. The grade point equivalents are 4 for A, 3 for B, 2 for C, 1 for D, and 0 for F. Courses completed at this University with grades below C will not count toward a graduate degree, but all grades of D and F in graduate courses at this University will be included in computing the cumulative grade point average. If a graduate student repeats a course, all grades are used in computing the grade point average. In very unusual circumstances exemptions to the repetition of courses regulation may be granted by the Graduate Dean.

Scholastic Requirements

A student must have a minimum cumulative GPA of 3.0 in graduate work at this University to be in Academic Good Standing at the graduate level. Students who fail to meet this requirement will be terminated from that degree program by the Graduate Dean or placed on academic probation by the department and provided with a period of time or a number of credit hours, within which to raise the GPA to the required standard. A student who fails to bring the cumulative GPA up to a minimum of 3.0 during the probationary period may be terminated from that degree program by the Graduate Dean upon the recommendation of the department. A student must be in Academic Good Standing to be admitted to candidacy for a degree or to graduate.

Research With Human Subjects

Institutional policy requires that all research involving human subjects be reviewed by the Institutional Review Board (IRB). For additional information and forms, contact Departmental/Unit IRB representative or the University Research Office, Illinois State University, 310 Hovey Hall (309) 438-2528 or <http://www.uro.ilstu.edu/uro/uro-home.htm>.

Applying for Graduation

The Graduate Catalog contains detailed information on requirements for graduation. Students must meet all requirements for their curriculum. A graduate student must apply for graduation in the Graduate Office, 310 Hovey Hall, before the deadlines specified for each session by the Graduate School. At the time application is made, the graduation fee must be paid.

Incomplete Grades

An incomplete (I) will be assigned to a student who is doing passing work but finds it impossible, because of reasons beyond his or her control, such as illness, to complete the required work by the end of the term. The student must have attended class to within three weeks of the close of the semester or a proportionate time for a summer session or short course, and the quality of the work must be such that the student can complete it through special assignments and/or examinations. The instructor will specify (1) the date by which the required work must be completed, which will be no later than the final class day of the corresponding term of the following academic year, and (2) the default grade (B, C, D, or F) which will be assigned if the work is not completed by the specified date. The student will be notified of the default date and grade. Once a default grade has been placed on a student's record, it can be changed only with the approval of the Graduate School. For graduating students, incompletes in courses listed on their Plan of Study must be removed in the Records Office at least three weeks prior to graduation.

Deferred Credit

Deferred credit (De) is always given in research and performance courses leading to a thesis, dissertation or exhibition. Credit will be allowed when the student satisfactorily completes all requirements for the program. Deferred credit (De) is not used in computing the cumulative grade point average.

New Start Policy

Students who leave an Illinois State graduate degree program and return to Illinois State to pursue a different graduate degree may begin the new degree program with a new graduate GPA calculated from the point of their readmission to the Graduate School as long as 1) the student is admissible to the new graduate program at Illinois State and meets all the criteria established by the Graduate School, and 2) the student has not enrolled at Illinois State University for a period of at least five years.

Graduate courses taken prior to being readmitted to the Graduate School will not apply or count toward the graduate program for the new degree. Students may exercise the "New Start" option only once and must follow the re-entry catalog. Such students will have "New Start" indicated on their transcript.

Religious Observances

The University will reasonably accommodate its students, faculty, and staff who are unable to fulfill their regular duties on the occasion of a religious observance. Faculty and staff should observe normal procedures for absence from their duties. Students who are unable to attend class or take examinations for religious reasons will be given information needed to make up classes and work which were missed or to take the examination on an alternate, acceptable day.

Transfer of Degree Programs

A transfer from one degree program to another requires approval of the receiving department.

Withdrawals - From Less Than All Courses

The following policy applies where a student drops a course or courses, but not all courses in which the student is registered during a particular semester. The Dean of the Graduate School strongly advises students to make a commitment to complete courses in which they are enrolled whenever possible and not to withdraw from courses after the program change period unless absolutely necessary.

The following policy applies to students who drop a course or courses but maintain an enrolled status within the University: A student may withdraw from a course during the program change period without the withdrawal being shown on the transcript. (A student should consult the Class Registration Directory to obtain specific dates.)

After the tenth day of classes but prior to the end of the fifth week of classes during any regular semester, a student may withdraw from a full semester course with a grade of WX upon complying with the following steps: (1) Obtain, complete, and sign a withdrawal form; (2) Obtain the instructor's signature on the form; (3) Submit the form to the Registration Office.

A grade of F will be given to students who (1) fail to officially withdraw from a course by complying with the above procedure; or (2) register for a course but do not complete course requirements.

A student should consult the applicable Class Registration Directory for specific withdrawal dates during any instructional term. For courses taken during a term less than a regular semester, a proportional withdrawal period will apply.

Upon the written recommendation of a licensed physician or clinical psychologist, or in other unusual circumstances, a student may be granted permission to officially withdraw from a course for medical, psychological or other special reason after the official withdrawal period upon receiving approval from the Graduate Dean.

Withdrawal from the University

The following policy applies when a student drops all courses in which he or she is enrolled, which is known as withdrawal from the University. The Dean of the Graduate School strongly advises students to complete courses in which they are enrolled and not to withdraw from the University unless absolutely necessary. Before the end of the twelfth week of classes, students contemplating withdrawal from the University must contact the Registration Office. If the student's request to withdraw from the University is granted, all grades will be assigned in the same manner and under the same provisions as the regular course withdrawal policy except that the student will not be required to contact his or her instructors. Instead, the instructor of each course would assign a WP, WF, WX, or letter grade as appropriate. If medical or similar substantial reasons make it impossible for the student to follow the usual procedures, a letter signed by the student explaining the situation and requesting withdrawal from the University will be sufficient. Whether delivered in person or by mail, the withdrawal is processed in the Registration Office.

Regardless of the circumstances of withdrawal, the student shall be responsible for returning any laboratory equipment and library materials. The student shall pay any parking fines and remove the parking decal from any registered vehicle. The student shall contact the Office of Residential Life to obtain clearance from room and board obligations and to arrange for vacating the residence hall room. The student shall arrange with the Financial Aid Office to place any scholarship on leave or cancel it and arrange a payment plan for any loans.

A grade of F will be given to students who do not officially withdraw with the Registration Office before the specified final withdrawal date, and to students who register for a course but do not complete course requirements. In exceptional cases, deviations may be granted by the Dean of the Graduate School. In the case of graduate students, the F will count toward the graduate student's grade point average.

FIELDS OF STUDY AND DEGREES GRANTED

College of Applied Science and Technology

Agribusiness.....	M.S.
Applied Computer Science	M.S.
Criminal Justice Sciences	M.A., M.S.
Family and Consumer Sciences.....	M.A., M.S.
Health, Physical Education, and Recreation.....	M.A., M.S.
Industrial Technology	M.S.

College of Arts and Sciences

Biological Sciences	M.S., Ph.D.
Chemistry	M.S.
Communication	M.A., M.S.
Economics.....	M.A., M.S.
English	M.A., M.S., D.A.
Foreign Languages	M.A.
Geohydrology.....	M.S.
History	M.A., M.S., D.A.
Mathematics.....	M.A., M.S.
Mathematics Education.....	Ph.D.
Political Science.....	M.A., M.S.
Psychology.....	M.A., M.S.
School Psychology	S.S.P., Ph.D.
Sociology	M.A., M.S.
Speech Pathology and Audiology.....	M.A., M.S.
Writing.....	M.A., M.S.

College of Business

Accounting	M.S.
Business (Finance, Insurance and Law; Management and Quantitative Methods; Marketing)	M.B.A.

College of Education

Counselor Education.....	M.S., M.S. in Ed.
Curriculum and Instruction.....	M.S., M.S. in Ed., Ed.D.
Educational Administration....	M.S., M.S. in Ed., Ed.D., Ph.D.
Reading	M.S. in Ed.
Special Education	M.S., M.S. in Ed., Ed.D.

College of Fine Arts

Art	M.A., M.S., M.F.A.
Music	M.M., M.M.Ed.
Theatre	M.A., M.S., M.F.A.

NOTE: Graduate degrees are not granted in the following departments, but graduate course work is available as supplemental study or as electives:

- Department of Business Education and Administrative Services
- Department of Health Sciences
- Department of Philosophy
- Department of Physics
- Department of Social Work

Master's Degrees

Admission to Master's Programs

An applicant for a program leading to the master's degree must have a bachelor's degree from a four-year college or university that is accredited by the appropriate regional accrediting association, or its equivalent, as determined by the Graduate Dean. Applicants are considered on the basis of their academic record and other performance requirements stipulated by the individual departments. These may include examinations, interviews, auditions, examples of work, and letters of recommendation. To be admitted to a degree program, a student must have at least a 2.6 grade point average (on a scale in which A equals 4) for the last 60 hours of undergraduate work, and the approval of an academic department. In specific cases a department may petition the Dean of the Graduate School for permission to use undergraduate courses taken while the student is classified as a graduate student (either as a Student-at-Large or a degree student in another graduate program) in calculating the GPA for the last 60 undergraduate hours. Specific admission requirements are described under departmental listings in this catalog.

Provisional Admittance: A student whose application for a degree program is incomplete because not all required supporting material has been received in the Office of Admissions may be admitted as a provisional student. The provisional student may be granted a permit to register for one semester only, pending a decision on his/her application for admission. A provisional student is not a student-at-large. If the student with provisional status is subsequently unconditionally admitted to the Graduate School, there is no guarantee that the courses taken before unconditional admission will be counted toward a degree. Acceptance of previous courses will depend upon the recommendation of the adviser and the approval of the Graduate Dean. The degree-seeking applicant who enrolls as a provisional degree student accepts the risk of termination from the program if the provisional status is not cleared in the student's first semester.

Probationary Admittance: A student who does not meet the minimum grade point requirement but whose academic record and entrance examination scores give promise of high performance may be admitted as a probationary degree student. This admission must be based upon other documentation that the department deems important. Examples include exceptional scores on standard or additional examinations, interviews, letters of recommendation, exceptional grades in previous graduate work, samples of original work and/or demonstrated performance ability. Such recommendations for admission will be forwarded to the Graduate School for approval only if the student does not meet the minimum grade point average of 2.6 in the last 60 semester hours of undergraduate work and, in the case of international students, does not attain a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). A student who meets the Graduate School established minimums but not the department's minimum admission requirements may be admitted by the department on a probationary basis without approval from the Graduate School. Such admission may be restricted to a trial period of one semester. Any special restrictions of this type will be noted on the admission form along with other requirements for continued graduate

study. These may include the successful completion of specific courses or projects, the obtaining of a minimum specified grade point average, and/or other requirements. If these requirements are not met, the student may be terminated from the program at the end of one semester upon the recommendation of the department and approval of the Graduate Dean.

Deficiencies: When an applicant has been accepted, the department adviser will indicate any courses that may be required to remove undergraduate deficiencies. The department also may specify certain graduate courses which will be required in addition to those listed in the catalog and will designate which, if any, of these courses may be used in meeting requirements for the degree.

Seniors Taking Graduate Courses For Graduate Credit: Undergraduates can take graduate courses for graduate credit if they 1) are in their final semester, 2) have no more than twelve hours of undergraduate course work to complete and 3) have been admitted provisionally into a graduate degree program at Illinois State. Total registration can not exceed fifteen hours in that semester. Students must graduate at the end of that academic term to receive graduate credit for the courses taken. An exception is made when students must schedule practicum/student teaching requirements during their final semester. In such cases, qualified students may register for graduate courses during the academic term preceding the semester in which the practicum/student teaching requirements are met.

All course work taken for graduate credit must be approved by the department and the Graduate School **BEFORE** students register. A form for that purpose is available in the Office of Admissions.

Course work will count toward a graduate degree only if a student qualifies under the above criteria. Course work taken for graduate credit cannot count toward a bachelor's degree.

This opportunity is also extended to last semester seniors of other universities who find it possible to take graduate work at this University while completing requirements for the bachelor's degree on their own campuses. Interested students should write to the Dean of the Graduate School for further information.

Degree Options and Credit Requirements

Master's degrees are offered in the fields indicated above. A master's degree can be earned through one of three options. Not all programs contain all three options. Each option has a credit hour and a culminating requirement. Also, departments may have requirements in addition to the minimum below. The minimum requirements for the three options are as follows:

1. A 32-hour program that includes from four to six hours of credit in Master's Thesis 499.
2. A 32-hour program and a comprehensive examination.
3. A 39-hour program that designates a specific course, which includes synthesizing experiences involving research and exposition. The 39-hour option degree programs are as follows: Applied Computer Science, M.S.; Biological Sciences, M.S.; Counselor Education, M.S. or M.S. in Ed.; Economics, M.A. or M.S.; Educational Administration, M.S. in Ed.; Family and Consumer Sciences, M.A. or M.S.; Health, Physical Education, M.A. or M.S.; History, M.A. or M.S.; Industrial Technology, M.S.; Mathematics, M.A. or M.S.; Speech Pathology-Audiology, M.S.; Special Education, M.S. or M.S. in Ed.

The culminating requirement in each option requires mature application of skills and knowledge. The student is expected to demonstrate an approved standard of scholarship and to provide

evidence of his/her ability to think logically, to draw and defend conclusions, and to complete the work in a creditable manner.

Once an option has been approved on the formal Plan of Study, it can be changed only with written approval of the student's academic adviser and the Graduate Dean.

In the 32-hour option students must present, exclusive of Master's Thesis 499, not less than 15 hours of 400-level course work. In the 39-hour option program not less than 18 hours of 400-level course work must be presented. Some departments have higher hour requirements for 400-level courses.

Candidates for a master's degree may present no more than 9 hours total of credit from general courses 393, 397, 400, 493 and 498.

General Degree Requirements

Master of Arts: The Master of Arts degree is awarded to a student who has completed an appropriate program and met the following requirements at the college level: (1) a minimum of two-years in a foreign language (or its equivalent) in a language approved by the Graduate School, and (2) a minimum of 32 semester hours of credit in the humanities and social sciences beyond the language requirement.

These requirements in a foreign language, humanities and social sciences may be met by earning a C or better in the courses at either the graduate or undergraduate level. Students who wish to complete a proficiency examination in a language approved by the department and the Graduate School in lieu of appropriate coursework should contact the Graduate School for details. Students whose native language is not English may, with departmental approval, petition the Graduate School to substitute proficiency in the English language as fulfillment of the language requirement.

Master of Business Administration: Requirements for this degree are listed in the section devoted to the College of Business.

Master of Science: The Master of Science degree is awarded to students who complete a minimum of 32 hours within an approved Plan of Study and either a thesis or comprehensive examination or a 39-hour program with a culminating experience. Refer to the departments for specific requirements.

Master of Science in Education: The Master of Science in Education degree may be awarded to students who have met the requirements as designated in the individual departments in the College of Education. A minimum of 32 hours within an approved Plan of Study is required and the completion of either a thesis or comprehensive examination or a 39-hour program with a culminating experience.

Master of Music and Master of Music Education: Requirements for these degrees are listed in the section devoted to the Music Department.

Master of Fine Arts (Art and Theatre): Requirements for these degrees are listed in the departmental sections of this catalog and also under the heading of Master of Fine Arts.

Two Master's Degrees Simultaneously

A maximum of nine (9) hours of course work is allowable to count simultaneously toward two (2) master's degrees provided certain other stipulations are met. These stipulations are as follows: 1) that the student have the approval of the

department granting the second master's degree prior to the completion of the first degree, 2) that all requirements for both degree programs be met within the six year time limit, and 3) that a particular thesis may not be used to meet the degree requirements for more than one degree, and 4) that not more than three (3) hours of the nine (9) hours allowed to count toward the second degree be generated by independent study, practicum, or workshop credit.

Residence Requirements

Except in the departments of Art and Speech Pathology-Audiology, a candidate for a master's degree is not required to complete a residence requirement. For specific requirements of the above departments refer to the department program description.

Time Limits

All requirements for the master's degree must be completed within six calendar years, beginning with the date the student first registers as a degree student. When graduate study is interrupted by military service or other contingencies, the six year limit may be extended by the Graduate Dean.

Transfer and Extension Credit

Upon recommendation of the department where the student is enrolled and with the approval of the Graduate Dean, a student may present a maximum of nine semester hours of graduate credit from another college or university that is accredited by the appropriate regional accrediting association for use in meeting the requirements of the master's degree. The work must not form part of a degree program elsewhere. Under special circumstances, the Graduate Dean may allow a student to present a larger number of credits if recommended by the department. A student who plans to take work elsewhere should obtain prior approval indicating that the course or courses are appropriate to the student's curriculum at Illinois State University. Correspondence courses are not accepted toward a master's degree.

To be considered for transfer of credit, a course must be taught at the graduate level and the student must have received at least a B grade in the course. In addition, a departmental evaluation of all courses presented is necessary prior to consideration by the Graduate Dean.

Academic Advisers

Each student has an academic adviser to assist in planning the student's work. This adviser should be consulted regarding the sequence of courses, the selection of electives, and the option of thesis, comprehensive examination, or 39-hour option. If a student follows a curriculum of specialization in a subject-matter field, the chairperson of the department concerned is the academic adviser unless another faculty member has been appointed by the chairperson.

An advisory committee is appointed for each student who writes a thesis. This committee is responsible for directing the thesis project, recommending the student for admission to candidacy for the degree, and conducting the final examination.

If the student chooses the option of a comprehensive examination, the department has the responsibility of recommending the individual for admission to candidacy and conducting the final examination.

Program Approval

At registration, each student's program should be selected with the approval of the academic adviser. If a program does not

have such approval there is no assurance that the courses can be used in meeting the requirements for the degree.

Admission to Candidacy

To be admitted to candidacy for the master's degree the student must have an approved Plan of Study on file in the Graduate Office, completed all deficiencies, a minimum G.P.A. of 3.0 in graduate course work at Illinois State, and a copy of the Thesis Proposal approval form on file in the Graduate Office if choosing a thesis option. A Plan of Study should be submitted early in the student's program but no later than the published deadline date for each graduation. The Plan of Study must indicate whether the student has selected the comprehensive examination, thesis option, or the 39-hour option.

Thesis

Registration For Thesis Work: The student electing the thesis option must register for from four to six hours of 499, Master's Thesis. Any student using the services of the academic staff or the facilities of the University must be registered for the semester or term during which the services are rendered or the facilities are used. Also, to register for 499 the student must actually be working on the subject under the direction of the adviser or thesis chairperson. No grade will be given for the course but credit will be entered on the student's record at the time the approved thesis is deposited in the Graduate School Office. No credit for 499 may be given to a student who does not complete a thesis.

Continuous Registration: After the Thesis Proposal approval form has been accepted in the Graduate School and a student has completed the courses on the approved Plan of Study and registered for four to six hours of 499 Master's Thesis, the student is required to maintain continuous registration until the deposit of the final thesis in the Graduate School. The requirement for continuous registration may be fulfilled by registering for Thesis 499.01 (audit). The requirement for continuous registration does not apply during a summer term unless the student is graduating in that term. Registration for 499.01 may be in absentia. If circumstances prohibit continuous registration, a student must request a leave of absence from the department and then from the Graduate Dean. Any student interrupting continuous registration without obtaining a leave of absence will be withdrawn from the degree program. Any student requesting reinstatement in a degree program must direct such a request in writing to the department and, if approved, to the Graduate Dean. If reinstatement is approved, the student must then complete an application for readmission.

Thesis Committee: A thesis is written under the direction of a thesis committee appointed in a manner specified by the department. The committee normally consists of three or more members of the Graduate Faculty, but shall not be fewer than two members. The chairperson of the committee shall be a Full Member of the Graduate Faculty. A student must be admitted to a degree program in the Graduate School before a thesis committee can be appointed.

Thesis Proposal: The Proposal for Research, including the title, scope, and design, must be approved by the student's thesis committee before a student is admitted to candidacy. The student is required to file an approved Proposal for Research with the department at a time and in a manner specified by the department. A copy of the Thesis Proposal approval form shall be deposited in the Graduate School Office by the early part of the semester or term in which completion of the master's degree is expected, according to the deadlines published by the Graduate School. Forms are available in the Graduate Office.

There is no assumption of uniformity in thesis research. For example, a student may propose a creative project in art or music. In each instance, however, the completed project must meet approved standards of scholarship in the chosen field of study. In each instance there must be evidence of ability to think logically, to gather and organize material, to draw and defend conclusions, and to present the results of the foregoing procedures in a creditable manner.

Thesis Acceptance: The thesis must be tentatively accepted by the thesis examiner of the Graduate School before the distribution of the final examination copies. The examiner will check the thesis to ensure that it is consistent with the selected thesis style and the *Guide for Writers of Master's Theses* published by the Graduate School.

After tentative acceptance by the examiner the student must file two unbound examination copies of the thesis in the departmental office at least one week (seven days) before the thesis defense. The defense of the thesis is open to the academic community of the University. The department will notify in a timely manner its faculty, students, and the Graduate School about the thesis defense in a manner consistent with its normal departmental lines of communication. Subject to reasonable expectations of the chair of the student's committee, visitors may participate in questioning and discussion relevant to the topic of the thesis. However, only members of the student's committee will vote and make a final recommendation on the acceptance of the thesis. The Graduate Dean or designee and any other members of the Graduate Faculty of that department may be in attendance during the committee's deliberations. Following the defense, the student must file in the Graduate School the original and a copy of the approved thesis, unbound, with any corrections suggested by the committee. Before a thesis is finally accepted by the Graduate School, it will be examined again to verify corrections and conformity to University requirements. After binding, the original and copy of the thesis will be placed on file in the University library.

To be eligible for graduation a student must deposit the thesis in the Graduate School Office at least 10 days before the end of the semester or term or by the deadline published by the Graduate School. Theses filed after that date will be credited toward graduation the following semester or term. A student on academic probation is not eligible to submit a thesis or equivalent for acceptance by the Graduate School.

Examinations

Except for the 39-hour program options, an examination, oral, written, or both, must be taken by each student before receiving the master's degree. This examination covers the graduate work which the student is presenting for the degree. The time, place, and nature of the examination is determined by the student's advisory committee if the student selects the thesis option. The comprehensive examination is the responsibility of the department. **Comprehensive examinations may not be administered more than three times to individual students nor to students on academic probation.**

Specialist in School Psychology

Admission: An applicant for the program leading to the S.S.P. degree must have a bachelor's degree from a four-year college or university that is accredited by the appropriate regional accrediting association, or its equivalent, as determined by the Graduate Dean. Applicants are considered on the basis of their academic record, scores on the general and advanced tests of the Graduate Record Examination, 3 letters of recommendation, and a personal data form. To be admitted to the degree

program a student must have at least a 3.0 grade point average (on a scale in which A equals 4) in the last 60 hours of undergraduate work and the approval of the academic department.

Provisional Admission: A student whose application for the degree program is incomplete because not all required supporting material has been received in the Office of Admissions may be admitted as a provisional degree student. The provisional student may be granted a permit to register for one semester as a degree student only, pending a decision on his/her application for admission. A provisional student is not a student-at-large. The degree-seeking applicant who enrolls as a provisional degree student accepts the risk of termination from the program if the provisional status is not cleared in the student's first semester.

Probationary Admission: A student who does not meet the minimum grade point requirement but whose academic record and entrance examination scores give promise of high performance may be admitted as a probationary degree student. This admission must be based upon other documentation that the department deems important. Examples include exceptional scores on standard or additional examinations, interviews, letters of recommendation, and/or exceptional grades in previous graduate work. Such recommendations for admission will be forwarded to the Graduate School for approval only if the student does not meet the minimum grade point average of 2.6 in the last 60 semester hours of undergraduate work and in the case of international students, does not attain a minimum score of 550 on the Test of English as a Foreign Language (TOEFL). A student who meets the Graduate School established minimums but not the department's minimum admission requirements may be admitted by the department on a probationary basis without approval from the Graduate School. Such admission may be restricted to a trial period of one semester. Any special restrictions of this type will be noted on the admission form along with other requirements for continued graduate study. These may include the successful completion of specific courses, the obtaining of a minimum specified grade point average, and/or other requirements. If these requirements are not met, the student may be terminated from the program at the end of one semester upon the recommendation of the department and approval of the Graduate Dean.

Deficiencies: When an applicant has been accepted, the department will indicate any courses that may be required to remove undergraduate deficiencies. The department also may specify certain graduate courses which will be required in addition to those listed in the catalog and will designate which, if any, of these courses may be used in meeting requirements for the degree.

Seniors Taking Graduate Courses For Graduate Credit: Undergraduates can take graduate courses for graduate credit if they 1) are in their final semester, 2) have no more than twelve hours of undergraduate course work to complete and 3) have been admitted provisionally into a graduate degree program at Illinois State. Total registration can not exceed fifteen hours in that semester. Students must graduate at the end of that academic term to receive graduate credit for the courses taken. An exception is made when students must schedule practicum/student teaching requirements during their final semester. In such cases, qualified students may register for graduate courses during the academic term preceding the semester in which the practicum/student teaching requirements are met.

All course work taken for graduate credit must be approved by the department and the Graduate School **BEFORE** students register. A form for that purpose is available in the Office of Admissions.

Course work will count toward a graduate degree only if a student qualifies under the above criteria. Course work taken for graduate credit cannot count toward a bachelor's degree.

This opportunity is also extended to last semester seniors of other universities who find it possible to take graduate work at this University while completing requirements for the bachelor's degree on their own campuses.

Degree Option and Credit Requirements: The S.S.P. degree requires the completion of a minimum of 61 semester hours of graduate level course work including practicum experiences; a full-time, nine-month internship in a school setting and a thesis for which 4 semester hours of credit will be given.

Students must maintain a grade point average of at least 3.0 throughout their graduate training. Additionally, no more than 9 semester hours with grades of "C" are permissible. Students must present, exclusive of Thesis 499, not less than 15 hours of 400-level course work.

Time Limits: All requirements for the S.S.P. degree must be completed within six calendar years, beginning with the date the student first registers as a degree student. When graduate study is interrupted by military service or other contingencies, the six year limit may be extended by the Graduate Dean.

Transfer Credit: Upon recommendation of the department and with the approval of the Graduate Dean, a student may present a maximum of nine semester hours of graduate credit from another college or university that is accredited by the appropriate regional accrediting association for use in meeting the requirements of the S.S.P. degree. The work should not form part of a degree program elsewhere. Under special circumstances, the Graduate Dean may allow a student to present a larger number of credits if recommended by the department. A student who plans to take work elsewhere should obtain prior approval indicating that the course or courses are appropriate to the student's curriculum at Illinois State University. Correspondence courses are not accepted toward the S.S.P. degree.

To be considered for transfer of credit, a course must be taught at the graduate level and the student must have received at least a B grade in the course. In addition, a departmental evaluation of all courses presented is necessary prior to consideration by the Graduate Dean.

Academic Advisers: Each student has an academic adviser to assist in planning the student's work. The adviser should be consulted regarding the sequence of courses and the selection of electives. An advisory committee is appointed for each student who writes a thesis. The committee is responsible for directing the thesis project, recommending the student for admission to candidacy for the degree, and conducting the final examination.

Program Approval: At registration, each student's program should be selected with the approval of the academic adviser. If a program does not have such approval there is no assurance that the courses can be used in meeting the requirements for the degree.

Admission to Candidacy: To be admitted to candidacy for the S.S.P. degree the student must have an approved Plan of Study on file in the Graduate Office, completed all deficiencies, a minimum G.P.A. of 3.0 in graduate course work at Illinois State, and a copy of the Thesis Proposal approval form on file in the Graduate Office.

Registration For Thesis Work: The student under the thesis option must register for four hours of 499, Thesis. Any stu-

dent using the services of the academic staff or the facilities of the University must be registered for the semester or term during which the services are rendered or the facilities are used. Also, to register for 499 the student must actually be working on the subject under the direction of the adviser or thesis chairperson. No grade will be given for the course but credit will be entered on the student's record at the time the approved thesis is deposited in the Graduate School Office. No credit for 499 may be given to a student who does not complete a thesis.

Continuous Registration: After the Thesis Proposal approval form has been accepted in the Graduate School and a student has completed the courses on the approved Plan of Study and registered for four hours of 499 Thesis, the student is required to maintain continuous registration until the deposit of the final thesis in the Graduate School. The requirement for continuous registration may be fulfilled by registering for Thesis 499.01 (audit). The requirement for continuous registration does not apply during a summer term unless the student is graduating in that term. Registration for 499.01 may be in absentia. If circumstances prohibit continuous registration, a student must request a leave of absence from the department and then from the Graduate Dean. Any student interrupting continuous registration without obtaining a leave of absence will be withdrawn from the degree program. Any student requesting reinstatement in a degree program must direct such a request in writing to the department and, if approved, to the Graduate Dean.

Thesis Committee: A thesis is written under the direction of a thesis committee appointed in a manner specified by the department. The committee normally consists of three or more members of the Graduate Faculty, but shall not be fewer than two members. The chairperson of the committee shall be a Full Member of the Graduate Faculty. A student must be admitted to a degree program in the Graduate School before a thesis committee can be appointed.

Thesis Proposal: The Proposal for Research, including the title, scope, and design, must be approved by the student's thesis committee before a student is admitted to candidacy. The student is required to file an approved Proposal for Research with the department at a time and in a manner specified by the department. A copy of the Thesis Proposal approval form shall be deposited in the Graduate School Office by the early part of the semester or term in which completion of the S.S.P. degree is expected, according to the deadlines published by the Graduate School. Forms are available in the Graduate Office.

Thesis Acceptance: The thesis must be tentatively accepted by the thesis examiner of the Graduate School before the distribution of the final examination copies. The examiner will check the thesis to ensure that it is consistent with the selected thesis style and the *Guide for Writers of Master's Theses* published by the Graduate School.

After tentative acceptance by the examiner the student must file two unbound examination copies of the thesis in the departmental office at least one week (seven days) before the thesis defense. The defense of the thesis is open to the academic community of the University. The department will notify in a timely manner its faculty, students, and the Graduate School about the thesis defense in a manner consistent with its normal departmental lines of communication. Subject to reasonable expectations of the chair of the student's committee, visitors may participate in questioning and discussion relevant to the topic of the thesis. However, only members of the student's committee will vote and make a final recommendation on the acceptance of the thesis. The Graduate Dean or

designee and any other members of the Graduate Faculty of that department may be in attendance during the committee's deliberations. Following the defense, the student must file in the Graduate School the original and a copy of the approved thesis, unbound, with any corrections suggested by the committee. Before a thesis is finally accepted by the Graduate School, it will be examined again to verify corrections and conformity to University requirements. After binding, the original and copy of the thesis will be placed on file in the University library.

To be eligible for graduation a student must deposit the thesis in the Graduate School Office at least 10 days before the end of the semester or term or by the deadlines published by the Graduate School. Theses filed after that date will be credited toward graduation the following semester or term. A student on academic probation is not eligible to submit a thesis for acceptance by the Graduate School.

Master of Fine Arts

Offered in the Department of Art and the Department of Theatre, the Master of Fine Arts (MFA) is a terminal degree that emphasizes theory and practice in a particular discipline of the arts.

Admission: All regular criteria for admission to a degree program in the Graduate School of the University will apply. In addition, applicants in the Department of Theatre must audition and applicants in the Department of Art must submit a portfolio along with meeting other department requirements. This material will be reviewed by the members of the Graduate Faculty in the applicant's intended area of emphasis. After evaluations have been completed, the Office of Admissions will notify the applicant of the decision regarding admission to the MFA.

Academic Advisers: In the Department of Art the student in the pre-candidacy phase of the program selects a major adviser with the help of the Graduate Coordinator. With the help of the major adviser the student selects a candidacy review committee of three members. The chairperson of this committee must be from the student's major area of emphasis. Normally, the candidacy review committee continues as the student's graduate committee during the candidacy phase of the program.

In the Department of Theatre the chairperson of the department, in consultation with faculty whom the chairperson deems appropriate, will select the candidate's Portfolio Committee. The committee chairperson must come from the student's major area of emphasis.

Curriculum Requirements: A professionally oriented program, the MFA requires a minimum of 60 hours for a student with only a bachelor's degree or a minimum of 32 hours for a student with an earned master's degree. The total hours required for a student with an earned master's degree will be based on an evaluation of the student's portfolio and academic record. However, the final determination will not be made until the student has completed a minimum of six semester hours in the student's major area of emphasis. A candidate for the degree must demonstrate proficiency both as a practitioner and a teacher in one of several areas of emphasis listed in the Graduate Catalog.

Transfer of Credit: In the Department of Art a student can transfer no more than nine semester hours of credit from any graduate program (including a master's program in Art at Illinois State) for use in meeting the requirements of the MFA degree.

In the Department of Theatre a student who does not have an earned master's degree may present a maximum of six semester hours of credit from another college or university for use in meeting the requirements of the MFA degree. However, he/she may present all earned hours from a master's program in Theatre at Illinois State for use in meeting these requirements. A theatre student who has an earned master's degree must earn a minimum of 32 hours in the MFA program at Illinois State.

Residency: A student without an earned master's degree must complete a residency requirement of at least four semesters with at least two of them being full-time, consecutive semesters. A student with an earned master's degree must complete a residency requirement of at least two full-time, consecutive semesters. Summer session may be counted toward the two consecutive semester requirement only in the Department of Theatre.

Time Limitations: All work for the MFA degree must be completed within six calendar years after the student first registers as a degree student. In exceptional cases, if the student does not complete the work within this time, the six year limit may be extended by the Graduate Dean.

Admission to Candidacy: In order to be admitted to candidacy, the student without an earned master's degree must have completed 24 hours of graduate study at Illinois State University or two semesters of full-time resident study. The student with an earned master's degree must have completed 12 hours of graduate study at Illinois State University or one semester of full-time resident study. All students must have a grade average of B or better with no more than 5 (6 in the Theatre Department) hours below B.

Before becoming a candidate for the MFA in Art the student must pass a candidacy review that includes approval of the following items: portfolio of studio work, final Plan of Study, and proposal for the Supportive Statement (an exhibition-related written project).

Before becoming a candidate for the MFA in Theatre the student must have a Plan of Study on file with the Graduate School and pass a qualifying examination which is administered by the student's MFA portfolio committee. Admission to candidacy, which usually occurs in the final semester, must be satisfied before the student is allowed to schedule an exit portfolio presentation.

General Course Limitations: Candidates for the MFA may present no more than 15 total hours of general courses 393, 397, 400, 493, 498, and 500 toward their degree.

For additional program requirements see departmental sections of this catalog.

Doctor of Arts

The Doctor of Arts degrees are designed for the preparation of teachers and curriculum specialists in specific academic disciplines whose career objective is teaching, primarily in colleges, community colleges, and high schools.

Program Requirements

Admission: All regular criteria for admission to a degree program in the Graduate School of the University will apply. Students seeking admission to a Doctor of Arts (D.A.) degree program must present letters of recommendation and must submit scores on the General Test of the Graduate Record Examination before being admitted to the program. Admission to the D.A. program requires a level of preparation equivalent to a master's degree in an appropriate discipline from an accredited institution. Departments may make exceptions in

specific cases. Admission requires approval by both the department and the Graduate School.

Academic Adviser: Each department is responsible for advising each student upon admittance to the program and informing the student of the source of this assistance. The student's Plan of Study must have the approval of appropriate departmental officials and the Graduate School and should be submitted early in the student's program.

Course Requirements: The Doctor of Arts degree is not granted on the basis of a student's having successfully completed a certain number of courses, but is granted only after the candidate has demonstrated the required competency in the field.

Doctoral Residency: There is a full-time residency requirement of at least two terms. A term may be a semester or a summer session of at least eight weeks. Full-time residency is defined as at least nine semester hours of course work during a semester or six semester hours during a summer session. Departments may add additional residency requirements to the minimum stated above.

Purposes of a Doctoral Residency:

1. To orient and prepare graduate students to meet academic expectations and engage in activities that are associated with involvement in a scholarly environment as they pursue their doctoral degree.
2. To engage graduate students in the process of inquiry appropriate to their area of interest, discipline, and method of investigation.
3. To stimulate the intellectual, personal, and social development of graduate students through mentoring and other activities involving faculty, other students and other professionals.
4. To provide access to libraries, laboratories, and other instructional materials including computers and other technologies that support the intellectual development of students.

Each student will file a Declaration of Residency for approval of the department prior to entering into residency. The department will verify the completion of residency and then file the declaration with the Graduate School. Any exceptions to the above requirements must have the approval of the department and the Graduate School.

Time Limitation: All work for the Doctor of Arts degree, including the dissertation, must be completed within eight calendar years beginning with the date the student first registers as a Doctor of Arts degree student. Time limit extensions must have the approval of the department and the Graduate School.

Comprehensive/Preliminary Examination: The comprehensive/preliminary examination which may be written, oral, or oral and written will include the subject matter and its application. The examination can be taken no more than three times.

Admission to Candidacy: A doctoral student will be admitted to candidacy after: 1) a Plan of Study has been submitted to the Graduate School and approved; 2) the comprehensive/preliminary examination has been successfully completed and reported to the Graduate School and 3) the dissertation proposal has been approved by the dissertation committee and reported to the Graduate School.

Registration For Dissertation Work: Fifteen semester hours of 599 dissertation research are required for the Doctor of Arts degree. Any student using the services of the academic staff or the facilities of the University must be registered for the semester or term during which the services are rendered or

facilities are used. Also, to register for 599 the student must actually be working on the research under the direction of the adviser or dissertation chairperson.

Continuous Registration: Once admitted to candidacy in a Doctor of Arts degree program, as defined by the Admission to Candidacy policy, and after the student has completed all course work on the Plan of Study and the required number of hours (15) of 599 dissertation research the student is required to maintain continuous registration until the deposit of the final dissertation in the Graduate School. The requirement for continuous registration may be fulfilled by registering for Dissertation 599.01 (audit). The requirement for continuous registration does not apply during a summer term unless the student is graduating in that term. Registration for 599.01 may be in absentia. If circumstances prohibit continuous registration a student must request a leave of absence from the department and then from the Graduate Dean. Any student interrupting registration without obtaining a leave of absence will be withdrawn from the degree program. Any student requesting reinstatement in a degree program must direct such a request in writing to the department and, if approved, to the Graduate Dean. If reinstatement is approved, the student must then complete an application for readmission.

Dissertation Committee For D.A.: A dissertation is written under the direction of a dissertation committee appointed in a manner specified by the department. The committee must consist of three (3) members from within the department and may include additional internal or external members at the department's discretion. Proposed committee members who are not members of the Illinois State Graduate Faculty must be approved by the Graduate Dean. All committee members must have terminal degrees.

Dissertation Proposal For D.A.: The student is required to file an approved Proposal for Research with the department at the time and in a manner specified by the department. The title, scope, and design of the dissertation must be approved by the student's dissertation committee. A copy of the Dissertation Proposal approval form shall be deposited in the Graduate School no later than the early part of the semester or term in which completion of the doctoral degree is expected, in accordance with the deadlines published by the Graduate School.

Each candidate will be expected to complete a dissertation which is original and either 1) has relevance to the profession of college teaching, or 2) is an applied research topic which demonstrates a combination of scholarly, analytical, creative, and expository skills. The dissertation for the D.A. may involve the application of existing knowledge or theory to a practical educational problem or situation.

Dissertation Acceptance: The dissertation must be tentatively accepted by the dissertation examiner of the Graduate School before the distribution of the final examination copies. The examiner will check the dissertation to ensure that the dissertation is consistent with the selected dissertation style and the *Guide for Writers of Doctoral Dissertations* published by the Graduate School.

After tentative acceptance by the examiner the student must file two unbound examination copies of the dissertation in the departmental office at least one week (seven days) before the dissertation defense. The defense of the dissertation is open to the academic community of the University. The chair of the examining committee will notify the Graduate School of the date, time, location and tentative title of the dissertation two weeks prior to the defense. The Graduate School will notify the University community of the public presentation. Subject to reasonable expectations of the chair of the student's com-

mittee, visitors may participate in questioning and discussion relevant to the topic of the dissertation. However, only members of the student's committee will vote and make a final recommendation on the acceptance of the dissertation. The Graduate Dean or designee and any other members of the Graduate Faculty of that department may be in attendance during the committee's deliberations. Following the defense, the student must file in the Graduate School the original and a copy of the approved dissertation, unbound, with any corrections suggested by the committee. Before a dissertation is finally accepted by the Graduate School, it will be examined again to verify corrections and conformity to University requirements. The student is not required to have the dissertation published but will be required to pay the expense of microfilming for distribution by University Microfilms. After binding, the original and copy of the dissertation will be placed on file in the University library.

To be eligible for graduation a student must deposit the dissertation in the Graduate School office at least 10 days before the end of the semester or by the deadlines published by the Graduate School. Dissertations filed after that date will be credited toward graduation the following semester or session.

Doctor of Education

The Doctor of Education degrees are designed for the preparation of practitioners competent in identifying and solving complex educational problems and who have the ability to understand and conduct research in their field. The career objectives of program graduates generally lie in areas of education at any academic level.

Program Requirements

Admission: Students seeking admission to a Doctor of Education (Ed.D.) degree program must submit letters of recommendation and scores on the General Test of the Graduate Record Examination. Students may be required to come to the campus for an interview. Admission to an Ed.D. program will take account of personal and professional qualifications as well as scholastic records and measurement of academic ability. Admission to the Ed.D. program requires a level of preparation equivalent to a master's degree in an appropriate discipline from an accredited institution. Departments may make exceptions in specific cases. Admission requires approval by both the department and the Graduate School.

Academic Adviser: Each department is responsible for advising each student upon admittance to the program and informing the student of the source of this assistance. The student's Plan of Study must have the approval of appropriate departmental officials and the Graduate School and should be submitted early in the student's program.

Minor Fields: A Doctor of Education student may select a minor field (or fields) of study. The selection and composition of a minor field (or fields) must have the approval of the Graduate School and the major and minor departments. A minor field may, under certain circumstances, be in the same department as a major field.

Doctoral Residency: There is a full-time residency requirement of at least two terms. A term may be a semester or a summer session of at least eight weeks. Full-time residency is defined as at least nine semester hours of course work during a semester or six semester hours during a summer session. Departments may add additional residency requirements to the minimum stated above.

Purposes of a Doctoral Residency:

1. To orient and prepare graduate students to meet academic expectations and engage in activities that are associated with involvement in a scholarly environment as they pursue their doctoral degree.
2. To engage graduate students in the process of inquiry appropriate to their area of interest, discipline, and method of investigation.
3. To stimulate the intellectual, personal, and social development of graduate students through mentoring and other activities involving faculty, other students and other professionals.
4. To provide access to libraries, laboratories, and other instructional materials including computers and other technologies that support the intellectual development of students.

Each student will file a Declaration of Residency for approval of the department prior to entering into residency. The department will verify the completion of residency and then file the declaration with the Graduate School. Any exceptions to the above requirements must have the approval of the department and the Graduate School.

Time Limitations: Requirements for an Ed.D., including the dissertation, must be completed by the end of eight calendar years beginning with the date the student first registers as a Doctor of Education degree student. If the student does not complete the work during this time, the student may be required to take additional qualifying examinations, additional course work, or both, in order to continue in an Ed.D. program. Time limit extensions must have the approval of the department and the Graduate School.

Course Requirements: A Doctor of Education degree is not granted on the basis of a student having successfully completed a certain number of courses, but upon evidence of scholarly attainment as demonstrated especially by examinations and competence in research.

Research Tool Requirement for an Ed.D.: Ed.D. candidates are expected to have developed research competencies appropriate to doctoral candidates in their fields. These may involve proficiencies in such areas as statistics, measurement and evaluation, and field studies/ethnography.

Comprehensive/Preliminary Examinations: The comprehensive/preliminary examination is written or, written and oral. It covers the major and any minor fields. It also is concerned with the student's professional competence and ability to undertake independent research. The examination can not be taken more than three times.

Admission to Candidacy: A Doctor of Education student will be admitted to candidacy after: 1) a Plan of Study has been submitted to the Graduate School and approved; 2) the comprehensive/preliminary examination has been successfully completed and reported to the Graduate School; 3) the research tool requirement has been met; and 4) the dissertation proposal has been approved by the dissertation committee and reported to the Graduate School.

Registration for Dissertation Work: Fifteen semester hours of 599 dissertation research are required for the Ed.D. degree. Any student using the services of the academic staff or the facilities of the University must be registered for the semester or term during which the services are rendered or facilities are used. Also, to register for 599 the student must actually be working on the research under the direction of the adviser or dissertation chairperson.

Continuous Registration: Once admitted to candidacy in a Doctor of Education degree program, as defined by the

Admission to Candidacy policy, and after the student has completed all course work on the Plan of Study and the required number of hours (15) of 599 dissertation research the student is required to maintain continuous registration until the deposit of the final dissertation in the Graduate School. The requirement for continuous registration may be fulfilled by registering for Dissertation 599.01 (audit). The requirement for continuous registration does not apply during a summer term unless the student is graduating in that term. Registration for 599.01 may be in absentia. If circumstances prohibit continuous registration a student must request a leave of absence from the department and then from the Graduate Dean. Any student interrupting registration without obtaining a leave of absence will be withdrawn from the degree program. Any student requesting reinstatement in a degree program must direct such a request in writing to the department and, if approved, to the Graduate Dean. If reinstatement is approved, the student must then complete an application for readmission.

Dissertation Committee For Ed.D.: A dissertation is written under the direction of a dissertation committee appointed in a manner specified by the department. The committee must consist of three (3) members from within the department and may include additional internal or external members at the department's discretion. Proposed committee members who are not members of the Illinois State Graduate Faculty must be approved by the Graduate Dean. All committee members must have terminal degrees.

Dissertation Proposal For Ed.D.: The student is required to file an approved Proposal for Research with the department at the time and in a manner specified by the department. The title, scope, and design of the dissertation must be approved by the student's dissertation committee. A copy of the Dissertation Proposal approval form shall be deposited in the Graduate School no later than the early part of the semester or term in which completion of the doctoral degree is expected, in accordance with the deadlines published by the Graduate School.

While the dissertation for the Ed.D. may meet the expectation for independent research and an original contribution to knowledge, it is customary to allow greater flexibility for the Ed.D. dissertation, so that it may, for instance, involve the application of existing knowledge or theory to a practical educational problem or situation.

Dissertation Acceptance: The dissertation must be tentatively accepted by the dissertation examiner of the Graduate School before the distribution of the final examination copies. The examiner will check the dissertation to ensure that the dissertation is consistent with the selected dissertation style and the *Guide for Writers of Doctoral Dissertations* published by the Graduate School.

After tentative acceptance by the examiner the student must file two unbound examination copies of the dissertation in the departmental office at least one week (seven days) before the dissertation defense. The defense of the dissertation is open to the academic community of the University. The chair of the examining committee will notify the Graduate School of the date, time, location and tentative title of the dissertation two weeks prior to the defense. The Graduate School will notify the University community of the public presentation. Subject to reasonable expectations of the chair of the student's committee, visitors may participate in questioning and discussion relevant to the topic of the dissertation. However, only members of the student's committee will vote and make a final recommendation on the acceptance of the dissertation. The Graduate Dean or designee and any other members of the Graduate Faculty of that department may be in attendance during the committee's deliberations. Following the defense the

student must file in the Graduate School the original and a copy of the approved dissertation, unbound, with any corrections suggested by the committee. Before a dissertation is finally accepted by the Graduate School, it will be examined again to verify corrections and conformity to University requirements. The student is not required to have the dissertation printed but will be required to pay the expense of microfilming for distribution by University Microfilms. After binding, the original and copy of the dissertation will be placed on file in the University library.

To be eligible for graduation a student must deposit the dissertation in the Graduate School office at least 10 days before the end of the semester or by the deadlines published by the Graduate School. Dissertations filed after that date will be credited toward graduation the following semester or session.

Doctor of Philosophy

The Doctor of Philosophy degrees are designed for the preparation of individuals competent in research and scholarly inquiry whose career objectives are generally in research, teaching, consultation, or leadership roles in universities, colleges, institutes, educational agencies or private practice.

Program Requirements

Admission: Students seeking admission to a Doctor of Philosophy (Ph.D.) degree program must submit letters of recommendation and scores on the General Test of the Graduate Record Examination. Students may be required to come to the campus for an interview. Admission to a Ph.D. program will take account of personal and professional qualifications as well as scholastic records and measurement of academic ability. Admission to a Ph.D. program requires a level of preparation equivalent to a master's degree in an appropriate discipline from an accredited institution. Departments may make exceptions in specific cases. Admission requires approval by both the department and the Graduate School.

Academic Adviser: Each department is responsible for advising each student upon admittance to the program and informing the student of the source of this assistance. The student's Plan of Study must have the approval of appropriate departmental officials and the Graduate School and should be submitted early in the student's program.

Minor Fields: A Doctor of Philosophy student may select a minor field (or fields) of study. The selection and composition of a minor field (or fields) must have the approval of the Graduate School and the major and minor departments. A minor field may, under certain circumstances, be in the same department as a major field.

Doctoral Residency: There is a full-time residency requirement of at least two terms. A term may be a semester or a summer session of at least eight weeks. Full-time residency is defined as at least nine semester hours of course work during a semester or six semester hours during a summer session. Departments may add additional residency requirements to the minimum stated above.

Purposes of a Doctoral Residency:

1. To orient and prepare graduate students to meet academic expectations and engage in activities that are associated with involvement in a scholarly environment as they pursue their doctoral degree.
2. To engage graduate students in the process of inquiry appropriate to their area of interest, discipline, and method of investigation.

3. To stimulate the intellectual, personal, and social development of graduate students through mentoring and other activities involving faculty, other students and other professionals.
4. To provide access to libraries, laboratories, and other instructional materials including computers and other technologies that support the intellectual development of students.

Each student will file a Declaration of Residency for approval of the department prior to entering into residency. The department will verify the completion of residency and then file the declaration with the Graduate School. Any exceptions to the above requirements must have the approval of the department and the Graduate School.

Time Limitations: Requirements for a Ph.D., including the dissertation, must be completed by the end of eight calendar years beginning with the date the student first registers as a doctoral degree student. If the student does not complete the work during this time, the student may be required to take additional qualifying examinations, additional course work, or both, in order to continue in a Ph.D. program. Time limit extensions must have the approval of the department and the Graduate School.

Course Requirements: A Doctor of Philosophy degree is not granted on the basis of a student having successfully completed a certain number of courses, but upon evidence of scholarly attainment as demonstrated especially by competence in research.

Research Tool Requirement for a Ph.D.: The Ph.D. degree requirements include research tools. The tool requirements assume candidates will achieve proficiency in such areas as foreign languages, computer sciences, statistics, econometrics and historiography. Each department shall establish and verify currency of each candidate's research tools.

When a language is used in meeting the research tool requirement the following procedure should be used. For French, German, Russian, and Spanish, reading proficiency may be demonstrated by earning a B grade or better in a 300 level French, Spanish, or German foreign language literature or culture course, or an A in Russian 217 at Illinois State or the equivalent from another institution. Evidence of proficiency in a language other than French, German, Russian or Spanish may be demonstrated by earning a B grade or better in an upper division foreign language reading or literature course at Illinois State or the equivalent from another institution. The Graduate School has the responsibility of certifying that the acceptable level of proficiency has been met. Ph.D. candidates who wish to complete a proficiency examination in a language approved by the department and the Graduate School in lieu of appropriate coursework should contact the Graduate School for details.

Students whose native language is not English may, with departmental approval, petition the Graduate School to substitute proficiency in the English language as fulfillment of one of the required tools. Proficiency in English as a second language is demonstrated by skills sufficient to give and comprehend lectures in the field of specialization, to respond to questions relating to the specialization as well as to read the language without the aid of a dictionary. The student's major department shall furnish evidence to the Graduate School that advanced English proficiency has been achieved.

Comprehensive/Preliminary Examination: The comprehensive/preliminary examination is written or written and oral. It covers the major and any minor fields. It also is concerned with the student's professional competence and ability to undertake independent research. The examination can be taken no more than three times.

Admission to Candidacy: A Doctor of Philosophy student will be admitted to candidacy after: 1) a Plan of Study has been submitted to the Graduate School and approved; 2) the comprehensive/preliminary examination has been successfully completed and reported to the Graduate School; 3) the research tool requirement has been met; and 4) the dissertation proposal has been approved by the dissertation committee and reported to the Graduate School.

Registration for Dissertation Work: Fifteen semester hours of 599 dissertation research are required for the Ph.D. degree. Any student using the services of the academic staff or the facilities of the University must be registered for the semester or term during which the services are rendered or facilities are used. Also, to register for 599 the student must actually be working on the research under the direction of the adviser or dissertation chairperson.

Continuous Registration: Once admitted to candidacy in a Doctor of Philosophy degree program, as defined by the Admission to Candidacy policy, and after the student has completed all course work on the Plan of Study and the required number of hours (15) of 599 dissertation research the student is required to maintain continuous registration until the deposit of the final dissertation in the Graduate School. The requirement for continuous registration may be fulfilled by registering for Dissertation 599.01 (audit). The requirement for continuous registration does not apply during a summer term unless the student is graduating in that term. Registration for 599.01 may be in absentia. If circumstances prohibit continuous registration a student must request a leave of absence from the department and then from the Graduate Dean. Any student interrupting registration without obtaining a leave of absence will be withdrawn from the degree program. Any student requesting reinstatement in a degree program must direct such a request in writing to the department and, if approved, to the Graduate Dean. If reinstatement is approved, the student must then complete an application for readmission.

Dissertation Committee For Ph.D.: A dissertation is written under the direction of a dissertation committee appointed in a manner specified by the department. The committee must consist of three (3) members from within the department and may include additional internal or external members at the department's discretion. Proposed committee members who are not members of the Illinois State Graduate Faculty must be approved by the Graduate Dean. All committee members must have terminal degrees.

Dissertation Proposal For Ph.D.: The student is required to file an approved Proposal for Research with the department at the time and in a manner specified by the department. The title, scope, and design of the dissertation must be approved by the student's dissertation committee. A copy of the Dissertation Proposal approval form shall be deposited in the Graduate School no later than the early part of the semester or term in which completion of the doctoral degree is expected, in accordance with the deadlines published by the Graduate School. The dissertation for the Ph.D. must involve independent research and an original contribution to knowledge.

Dissertation Acceptance: The dissertation must be tentatively accepted by the dissertation examiner of the Graduate School before the distribution of the final examination copies. The examiner will check the dissertation to ensure that the dissertation is consistent with the selected dissertation style and the *Guide for Writers of Doctoral Dissertations* published by the Graduate School.

After tentative acceptance by the examiner the student must file two unbound examination copies of the dissertation in the departmental office at least one week (seven days) before the dissertation defense. The defense of the dissertation is open to the academic community of the University. The chair of the examining committee will notify the Graduate School of the date, time, location and tentative title of the dissertation two weeks prior to the defense. The Graduate School will notify the University community of the public presentation. Subject to reasonable expectations of the chair of the student's committee, visitors may participate in questioning and discussion relevant to the topic of the dissertation. However, only members of the student's committee will vote and make a final recommendation on the acceptance of the dissertation. The Graduate Dean or designee and any other members of the Graduate Faculty of that department may be in attendance during the committee's deliberations. Following the defense the

student must file in the Graduate School the original and a copy of the approved dissertation, unbound, with any corrections suggested by the committee. Before a dissertation is finally accepted by the Graduate School, it will be examined again to verify corrections and conformity to University requirements. The student is not required to have the dissertation printed but will be required to pay the expense of microfilming for distribution by University Microfilms. After binding, the original and copy of the dissertation will be placed on file in the University library.

To be eligible for graduation a student must deposit the dissertation in the Graduate School office at least 10 days before the end of the semester or by the deadlines published by the Graduate School. Dissertations filed after that date will be credited toward graduation the following semester or session.



PROFESSIONAL DEVELOPMENT SEQUENCE

Professional Development Sequence in Social Aspects of Aging

Social Aspects of Aging Sequence is a multidisciplinary program designed to offer a limited number of academically and professionally oriented graduate experiences in aging. The sequence is housed in the Graduate School with courses and advisement provided by the following departments: Sociology and Anthropology, Family and Consumer Sciences, Psychology, and Speech Pathology and Audiology.

Requirements for Admission to the Program: Potential applicants must have earned a bachelor's degree (or equivalent) and meet the requirements for admission to the Graduate School as students-at-large. Credit for courses may be applied to a graduate degree program if approved by a specific graduate program. (See Policy of Graduate School.) Potential applicants may contact the Graduate School or specific department advisers for application forms and further information.

Sequence Requirements: 12 hours required, which includes 1) Seminar in Gerontology (3 hours) to be taken after at least six of the other required hours have been completed, and 2) 9 hours of electives from among the following gerontology related courses:

Required Course (3 hours)

Seminar in Gerontology (SOC 469.08) Advanced treatment of gerontology including approximately one-third in overview of current gerontological issues plus selected topics in gerontology, e.g. Economics of Aging, Cross-Cultural Aspects of Aging, the Future of Aging.

Elective Courses (9 hours)

Health Aspects of Aging (HSC/FCS 394) Characteristics of the aging process and factors influencing adaptation and the quality of living.

Gerontological Psychology (PSY 304) Psychological aspects of developmental transformations occurring during later adulthood. Application of psychology to problems of aging.

Human Communication and the Aging Process (COM 331) An examination of the particular communication needs of the aging and current research in the field.

Families in Later Life (FCS 305) Exploration of family dynamics in later life. Emphasis on developmental tasks, needs, and decision-making issues of aging family members.

Experience in Gerontology Each student enrolled in the Sequence may negotiate with the Sequence Representative in the sponsoring department credit for 3 hours of "experience" in gerontology. This may include, but is not limited to, 400 Independent Study or 498 Professional Practice in any department/program which is relevant to the Sequence. Each "experience" is expected to involve some focused writing and analysis assignments. This experience should ordinarily be permitted after other courses are completed – at least *Seminar in Gerontology*. If the experience is of a "selected problems" type, a proposal should be approved by the Departmental Sequence Adviser no later than the 5th week of the semester.



COLLEGES, DEPARTMENTS AND COURSE OFFERINGS

Each student should assume responsibility for knowing the requirements for graduate programs and for complying with current policies.

Course Numbering System

This Graduate Catalog contains courses numbered 300 to 599. Courses 300-399 are advanced undergraduate courses and are open to juniors, seniors, and graduate students unless the department has designated a 300-level course for undergraduate students only. Courses 400-499 are graduate courses. Courses 500-599 generally are limited to terminal degree students in programs such as the D.A., Ed.D., M.F.A., and Ph.D.

The following information is given for each course, in the following order: course number (3 digits preceding the title), course title and credit value (in semester hours). Following the course description any prerequisites, restrictions on enrollment, and any special considerations are noted.

Limitation of credit: Candidates for a master's degree may present no more than 9 hours of credit from the asterisked courses toward their degrees (393, 397, 400, 493, and 498).

General Courses

389 SELECTED STUDIES

1-6 sem. hrs.

Course work not offered within the framework of existing departmental courses. The topic to be covered will be identified in the class schedule booklet each semester. Experimental courses and courses cutting across the departmental lines may be offered as selected studies.

393 WORKSHOP*

1-6 sem. hrs.

Advanced workshop for juniors, seniors and graduate students. Credit will be given by the department offering the workshop. See statement on limitation of credit above.

397 INSTITUTE*

1-9 sem. hrs.

Federal and state sponsored institutes or similar short term programs requiring treatment of subject matter of a special nature or for special groups. See statement on limitation of credit above.

400 INDEPENDENT STUDY*

1-4 sem. hrs.

A maximum of six hours may be applied toward a master's degree. Intensive study in a special area of the advanced student's interest under a qualified member of the faculty. Each individual investigation is to culminate in a comprehensive written report and/or examination. **Open only to graduate students who have completed considerable work in a degree program**, who are in good academic standing, and who have demonstrated ability to profit from independent study. A written proposal approved by the faculty member, the student's adviser, and the department chairperson is required prior to registration. See Research with Human Subjects in the Academic Policies and Procedures section. See statement on limitation of credit above.

429X PROFESSIONAL DEVELOPMENT WORKSHOP

1-6 sem. hrs.

Intensive and applied workshop for graduate students. Designed as an opportunity for updating skills and knowledge and intended primarily for teachers and other inservice professionals. Credit

will be given by the department offering the workshop. **Not for credit toward a graduate degree program.**

489 ADVANCED STUDY

1-6 sem. hrs.

Advanced course work not offered within the framework of existing departmental courses. The topic to be covered will be identified in the class schedule booklet each semester. Experimental courses and courses cutting across departmental lines may be offered as advanced studies.

493 WORKSHOP*

1-6 sem. hrs.

Intensive and applied workshop for graduate students. Designed as an opportunity for acquiring advanced knowledge and intended primarily for teachers and other inservice professionals. Credit will be given by the department offering the workshop. See statement on limitation of credit above.

498 PROFESSIONAL PRACTICE*

1-12 sem. hrs.

Supervised work experience in local, state, national, and international businesses, agencies, institutions, and organizations. The experience is planned, administered, and supervised at the departmental level and coordinated through Professional Practice. If the site is in an educational agency or institution, the placement must be approved by the Office of Clinical Experiences and Certification Processes. Written objectives and modes of evaluation shall be approved by the faculty supervisor and department chairperson prior to the beginning of the semester. **In a degree program, Professional Practice 498 cannot constitute more than 20% of the hours applied for graduation.** Open only to graduate students who have completed considerable work in a degree program, who are in good academic standing, and who have demonstrated ability to profit from professional practice experience. See statement on limitation of credit above. All departments that wish to offer 498 Professional Practice must have a curriculum proposal approved by Professional Practice and by the Graduate Curriculum Committee prior to use.

499 MASTER'S THESIS

1-6 sem. hrs.

A student electing the thesis option must take from four to six hours of 499. While registration beyond six hours may be permitted for the convenience of the student, he/she may not count more than a total of six hours of 499 among the 32 required for the master's degree.

500 INDEPENDENT STUDY*

1-4 sem. hrs.

A maximum of twelve hours may be applied toward the Master of Fine Arts and the Doctoral degree. Intensive study in a special area of the advanced student's interest under a qualified member of the faculty. Each individual investigation is to culminate in a comprehensive written report and/or examination. Open only to graduate students who have completed considerable work in a degree program, who are in good academic standing, and who have demonstrated ability to profit from independent study. A written proposal approved by the faculty

member, the student's adviser, and the department chairperson is required prior to registration. See statement on limitation of credit above.

589 ADVANCED DOCTORAL STUDY

Doctoral-level course work under a qualified member of the graduate faculty, in subject matter not offered within the framework of existing departmental courses. The topic to be covered will be identified in the class schedule booklet each semester.

598 PROFESSIONAL PRACTICE

1-12 sem. hrs.

Supervised work experience in local, state, national, and international businesses, agencies, institutions, and organizations. The experience is planned, administered, and supervised at the departmental level and coordinated through Professional Practice. If the site is in an educational agency or institution, the placement must be approved by the Office of Clinical Experiences and Certification Processes. Written objectives and modes of evaluation shall be

approved by the faculty supervisor and department chairperson prior to the beginning of the semester. Open only to doctoral students. All departments that wish to offer 598 Professional Practice must have a curriculum proposal approved by Professional Practice and by the Graduate Curriculum Committee prior to use.

599 DOCTORAL RESEARCH

1-15 sem. hrs.

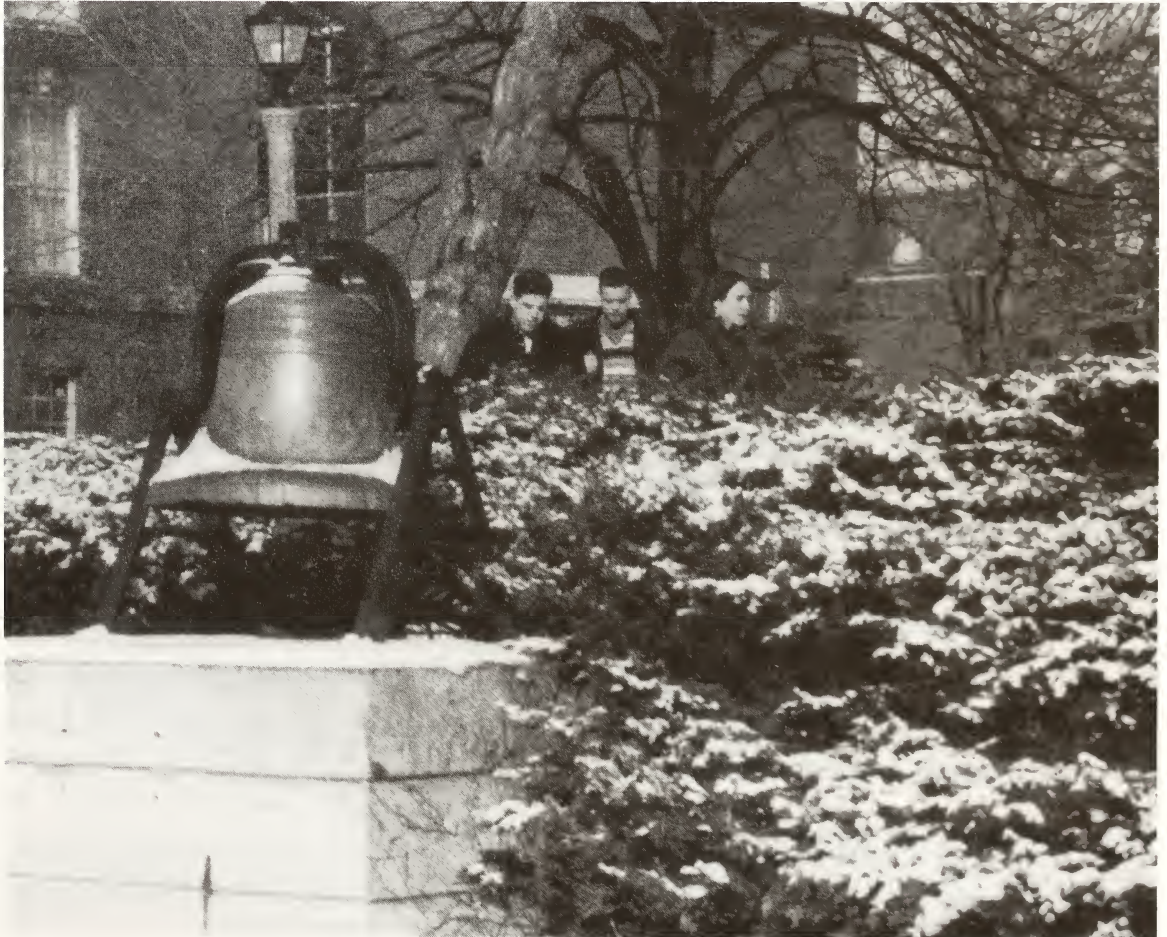
Research involving the gathering of data to form the basis of the doctoral dissertation. For further information refer to the appropriate degree in the section on Fields of Study and Degrees Granted.

Interdisciplinary Studies

391 WOMEN'S STUDIES SEMINAR

1-3 sem hrs.

Detailed study of current selected topics. May be repeated. Maximum 6 hrs.



COLLEGE OF APPLIED SCIENCE AND TECHNOLOGY

Acting Dean: Larry Quane, 145 Turner

The Departments of Agriculture; Applied Computer Science; Criminal Justice Sciences; Family and Consumer Sciences; Health, Physical Education, and Recreation; Health Sciences; Industrial Technology and Military Science constitute the College of Applied Science and Technology. Undergraduate and graduate programs of the College are designed to prepare students for professional and/or management positions in education, government, business and industry.

AGRICULTURE (AGR)

Chairperson: J.R. Winter. Office: 150 Turner Hall.

Graduate Coordinator: R. Whitacre.

Graduate Faculty: W. Chrudimsky, R. Knox, A. Moore, P. O'Rourke, K. Smiciklas, K. Tudor, A. VanDerZanden, C. Wachenheim, P. Walker, R. Whitacre, J. Winter, J. Wood.

Master's Degree in Agribusiness

The department offers work leading to the Master of Science degree in Agribusiness. University requirements for master's degrees are listed elsewhere in this catalog.

All courses, including transfer courses, must be listed on the Plan of Study and approved by the graduate coordinator, chairperson, and Dean of the Graduate School. A student may choose between: (I) 39 semester hour program including a thesis (thesis option); or (II) 39 semester hour program including a synthesizing experience and a comprehensive examination (non-thesis option).

Admission Requirements

Admission to the master's degree program requires submission of a transcript of an undergraduate degree with a minimum GPA of 2.75 (A=4.00) during the last 60 hours. Admission to the program also requires completion of the GRE and approval of the Department of Agriculture.

Academic Advisement

Students seeking a master's degree in Agribusiness should meet with the graduate coordinator for the department prior to enrollment in graduate courses. Deficiencies, if any, will be determined and a graduate adviser assigned. The student and adviser will plan the graduate program and submit the Plan of Study required by the Graduate School for the graduate coordinator's and chairperson's approval after the student completes 12 semester hours.

Curriculum Requirements

Students may select one of two options (thesis or non-thesis) in completing the M.S. degree. In either option, majors must complete required core courses (fifteen hours) consisting of AGR 497, MKT 430, FIL 410, MQM 421, and one of the following courses: MQM 420, BEA 416, FIL 440, MKT 431, or ACC 450. Students must also complete nine hours of advanced agribusiness courses selected from AGR 418, 420, 422, 424, and 445.

Option I: Option I is a 39 hour program that requires a thesis. Students selecting this option will complete the core requirements of fifteen hours, nine hours of advanced agribusiness courses, six hours of Master's Thesis (AGR 499), and nine hours of electives selected from the list below to meet the minimum of 39 semester hours.

Option II: Option II is a 39 hour program that requires a synthesizing experience consisting of three hours of Independent Study (AGR 400) under the direction of a major adviser and with the approval of the advisory committee. Students selecting this option will complete the core requirement of fifteen hours, nine hours of advanced agribusiness courses, and twelve hours of electives selected from the list below to meet the 39 semester hour requirement. Students selecting this option must also pass a comprehensive written/oral examination.

Elective Courses: The following courses are acceptable to satisfy the elective courses requirement for the M.S. Degree in Agribusiness: AGR 310, 312, 313, 314, 315, 316, 318, 319, 320, 340, 352, 355, 356, 357, 358, 363, 372, 373, 375, 418, 420, 422, 424, 445; ACC 332, 334, 340, 450, 468; BEA 408, 416; FIL 340, 341, 343, 344, 440, 441; MQM 301, 323, 324, 325, 326, 353, 354, 420, 423; MKT 329, 333, 337, 431; ECO 320, 326, 327, 328, 330, 331, 335, 345, 346, 350, 351, 353, 355, 360, 372, 404, 405, 415, 416, 435, 438, 439, 440, 441, and 445.

Courses

302 SPECIAL PROBLEMS IN AGRICULTURE

1-3 sem. hrs.

Special work in research interests of student and staff. Projects must be approved by the staff member and the chairperson of the department. Prerequisite: Comprehensive major or minor in AGR, or Agribusiness. May be repeated. Max. 6 hours.

303 SEMINAR IN AGRICULTURE

1 sem. hr.

Senior or graduate standing.

310 RURAL APPRAISALS

3 sem. hrs.

Principles, procedures, and terminology for evaluating rural property; preparation of appraisal reports as currently prepared by qualified and experienced rural appraisers. Prerequisites: AGR 216 or 318 or ACC 131 recommended, and an academic background in agriculture.

312 ADVANCED FARM ACCOUNTING

3 sem. hrs.

Advanced farm business records and analysis with emphasis on computer applications. Prerequisites: AGR 213 and 216 required.

313 ADVANCED FARM MANAGEMENT

3 sem. hrs.

Farm business decisions and their interrelationships. Examination of statics, dynamics and uncertainty in agricultural decision-making. Prerequisites: AGR 213, 216.

314 GRAIN MARKETING

3 sem. hrs.

Economics and marketing problems in grain industry. Special emphasis on futures marketing. Prerequisite: AGR 214.

315 FINANCIAL MANAGEMENT AND ANALYSIS OF THE AGRIBUSINESS FIRM

3 sem. hrs.

Application of quantitative concepts and methods to the analysis and financial management of proprietary and cooperative agribusiness firms. Prerequisites: AGR 215; MAT 120; AGR 216 or ACC 131, or consent of instructor.

316 LIVESTOCK MARKETING**3 sem. hrs.**

Economic principles applied to marketing of livestock and livestock products. Consideration given to producers, processors, and distributors. Prerequisite: AGR 214.

318 AGRICULTURE FINANCE**3 sem. hrs.**

The principles of agriculture finance including the capital requirements, the sources of credit, and the optimum uses of capital. Prerequisite: AGR 216 or ACC 131.

319 AGRICULTURAL POLICIES AND PROGRAMS**3 sem. hrs.**

History and impact of government intervention in agriculture. Examination of major agricultural programs, past and present. Prerequisite: AGR 110.

320 FARM COMMODITY PRICING**3 sem. hrs.**

Analysis of the theory and mechanics of price determination for agricultural commodities. Prerequisite: AGR 214.

340 EQUIPMENT FOR PRODUCING AND HANDLING AGRICULTURAL PRODUCTS**3 sem. hrs.**

Selection, design, operation, adjustment and maintenance of machinery and equipment used in producing, storing, and processing agricultural products. Prerequisite: AGR 130. Lecture and laboratory. Field trips.

352 TURF MANAGEMENT**3 sem. hrs.**

Principles and practices used in management of turf grasses, residential and recreational turf. Prerequisite: AGR 150 or BSC 192.

353 LANDSCAPE DESIGN AND CONSTRUCTION**3 sem. hrs.**

Problem approach to landscape design and construction. Site surveys and analyses. Plant selection and preparation of functional designs. Lectures and practice in landscape design. Prerequisites: AGR 252 and 255.

355 PLANT BREEDING AND BIOTECHNOLOGY**3 sem. hrs.**

Breeding procedures and techniques used in developing new varieties of field crops. Prerequisite: AGR 272 or equivalent.

356 PLANT PROPAGATION**3 sem. hrs.**

Basic principles and commercial practices involved in sexual and asexual propagation of agricultural plants. Prerequisite: AGR 150 or BSC 192. Lecture and laboratory. Offered odd numbered years. Materials charge optional.

357 SOIL FERTILITY AND FERTILIZERS**4 sem. hrs.**

Fundamental concepts of soil fertility and fertilizer manufacturing. Plant nutrition, factors affecting plant growth, soil-plant relationships, and macro- and micro-nutrients. Prerequisite: AGR 157. Lecture and laboratory. Field trips.

358 SOIL MANAGEMENT**4 sem. hrs.**

The application of physical and chemical properties of soils to their management. Prerequisite: AGR 157.

363 AGRICULTURAL EXPERIMENTATION**3 sem. hrs.**

Principles of agricultural research for plant and animal sciences; includes design, data collection, interpretation, and presentation of results. Prerequisites: MAT 120 or 144. Lecture and lab.

372 LIVESTOCK BREEDING**3 sem. hrs.**

Reproduction and principles of heredity and their application to livestock breeding; population genetics, inbreeding, relationship, outbreeding, and selection. Prerequisite: AGR 272 or BSC 319.

373 REPRODUCTIVE PHYSIOLOGY**3 sem. hrs.**

Reproduction in livestock, anatomy of the reproductive and hormonal systems, physiological and hormonal aspects of lactation. Prerequisite: AGR 170.

375 ANIMAL NUTRITION**3 sem. hrs.**

Science of animal nutrition; special attention to recent discoveries pertaining to the protein, mineral and vitamin requirements of livestock. Prerequisites: AGR 170, 171. Field trips. Offered odd numbered years.

396 METHODS AND PROCEDURES IN AGRICULTURAL EDUCATION**5 sem. hrs.**

Procedures in planning, conducting, and evaluating an agricultural education program; philosophical inquiry in education; teaching special needs students. Includes clinical experiences.

400 INDEPENDENT STUDY**1-4 sem. hrs.**

Refer to Index for General Courses.

418 ADVANCED AGRICULTURAL FINANCE**3 sem. hrs.**

Advanced principles of agricultural finance, including investment analysis, resource control, legal aspects of lending, and sources of capital. Prerequisite: AGR 315 or 318 or consent of instructor.

420 MANAGEMENT OF MARKET RISK IN AGRIBUSINESS**3 sem. hrs.**

An examination and analysis of the techniques used by agribusinesses for managing the risk associated with variable and unknown commodity prices. Prerequisite: AGR 314 and 320 or consent of instructor.

422 INTERNATIONAL TRADE OF AGRICULTURAL PRODUCTS**3 sem. hrs.**

Examination of the gains from trade and the impact of agricultural trade policies on the welfare of trading nations. Prerequisite: ECO 240 and 241 or consent of instructor.

424 AGRIBUSINESS STRATEGY AND ANALYSIS**3 sem. hrs.**

Advanced application of quantitative and qualitative analysis in the development and implementation of Agribusiness firm strategy and policy. Prerequisite: Admission to Agribusiness graduate program or consent of instructor.

445 STATISTICS IN APPLIED SCIENCE AND TECHNOLOGY**4 sem. hrs.**

Descriptive and inferential statistics in the applied sciences; statistical analysis using microcomputer applications. Also offered as FCS HPR 445.

497 RESEARCH METHODOLOGY IN AGRIBUSINESS**3 sem. hrs.**

The procedure, techniques, and application of research methods in agribusiness. Problem identification and analysis, experimental design and report presentation. Prerequisite: Admission to Agribusiness graduate program or consent of instructor.

APPLIED COMPUTER SCIENCE (ACS)

Chairperson: Robert Zant. Office: 202 Old Union.

Graduate Faculty: B. Beccue, L. Brumbaugh, C. Chrisman, G. Chrisman, G. Crow, D. Doss, L. Eggan, T. Gyires, J. Hartman, D. Kephart, B. Lim, R. Rariden, D. Sanders, T. Schambach, B. Swafford, J. Vila, D. Wallace, R. Zant.

Master's Degree in Applied Computer Science

The Master of Science program in Applied Computer Science emphasizes the application of computers to real-world problem solving, focusing principally on software- and people-related issues in the development of computer applications. It is appropriate for a range of students, including industry practitioners seeking career advancement, students wishing to expand on their undergraduate computing work, and individuals wishing to make a career change. Students may pursue either a project or thesis option.

Admission Requirements

All University and Graduate School requirements for admission to a degree program of the Graduate School apply. Additional department requirements are listed below.

Applicants must submit scores from the Graduate Record Examination (GRE) General Aptitude test. The GRE Verbal and Quantitative scores should each exceed 400, and the sum of these two scores is expected to exceed 1100.

Applicants must have a bachelor's degree from an accredited university or college and must have a grade point average (GPA) of at least 3.0 (B) on a 4.0 scale, calculated over the last 60 hours taken (either graduate or undergraduate). The undergraduate degree need not be in computing. International students must present a TOEFL score of at least 570.

Minimum programming background for the graduate program consists of the equivalent of one year of programming in a high level language as well as an understanding of basic data structures and file organizations. Introductory knowledge of systems analysis and design and of database concepts is also required. In addition, knowledge and experience with microcomputers is expected. Knowledge of a second programming language is recommended. Students lacking this background may be admitted, but will be required to take selected undergraduate courses as program deficiencies, as approved by the ACS Graduate Coordinator.

Curriculum Requirements

To provide a broad common background, each student is required to select, in consultation with a graduate adviser, one course from each of the following Core Areas:

Software Development	ACS 460*
Data Communications	ACS 375 or ACS 475
Database	ACS 378 or ACS 478
Advanced System Development	ACS 463 or ACS 467
Technical Communications	ENG 349 or BEA 416

*Students without previous knowledge of Systems Analysis and Design (the equivalent of ACS 363) will need to take ACS 432 as a prerequisite to ACS 460, 463, and 467.

There are two options available within this degree: the **Thesis Option** and the **Project Option**.

The **Thesis Option** requires a minimum of 32 semester hours as follows:

Core Area courses	15 hours
Research methodology	3 hours
ACS 499 (Master's Thesis)	5 hours
Electives	9 hours
Total	32 hours

Students pursuing the thesis option must take a course in research methodology no later than the first semester of thesis enrollment (earlier is recommended). A list of approved research courses is available from the ACS Graduate Coordinator. Students in the thesis option must complete a minimum of 15 hours of 400-level course work, not counting thesis hours.

The **Project Option** requires a minimum of 39 semester hours as follows:

Core Area courses	15 hours
ACS 494 (Graduate Directed Project)	6 hours
Electives	18 hours
Total	39 hours

Students in the project option must complete a minimum of 15 hours of 400-level course work, not counting project hours.

Courses

306 BUILDING APPLICATIONS SYSTEMS 3 sem. hrs.

Creating applications using end user development tools; prototyping; human/software interface design; end user development issues. Prerequisite: ACS 261. Also offered as ACC 368. Not for credit in ACS graduate program.

325 COMPUTER ORGANIZATION 3 sem. hrs.

Hardware and software topics in computer organization: Instructions, modalities, control units, memories, data paths, uniprocessors and multiprocessors. Prerequisite: ACS 254.

326 PRINCIPLES OF SOFTWARE ENGINEERING 3 sem. hrs.

Fundamentals of software engineering. Topics include specification models, metrics, design fundamentals, interface design, quality assurance, and automated tools. Prerequisites: ACS 169 and 261.

327 CONCEPTS OF PROGRAMMING LANGUAGES 3 sem. hrs.

Survey of pragmatic, syntactic and semantic structure of programming languages. Procedural, logic-oriented, object-oriented and other contemporary languages included. Prerequisite: ACS 169.

328 INTRODUCTION TO THE THEORY OF COMPUTATION 3 sem. hrs.

Basic concepts in computing theory. Topics include recursive definitions, regular expressions, transition graphs, automata, nondeterminism, grammars, parsing, decidability, Turing machines. Prerequisite: ACS 279.

340 INTRODUCTION TO ARTIFICIAL INTELLIGENCE 3 sem. hrs.

Introduction to concepts in artificial intelligence, including: knowledge representation, heuristic search, production systems, expert systems, natural language, and learning. Prerequisite: ACS 279.

341 OBJECT-ORIENTED SYSTEM DEVELOPMENT
3 sem. hrs.

Main concepts of object-oriented technology and a comprehensive methodology for system development. Object-oriented analysis, design, and implementation including object-oriented databases. Prerequisite: ACS 261.

346 KNOWLEDGE ENGINEERING
3 sem. hrs.

In depth study of knowledge-based systems and the knowledge engineering process; use of expert systems tools to construct applications. Prerequisite: ACS 363.

352 MULTIMEDIA TECHNOLOGY APPLICATIONS
3 sem. hrs.

Practical principles, methods, and tools for the design and development of multimedia applications; authoring languages; multimedia technology hardware and trends. Prerequisite: ACS 261.

355 MICROCOMPUTER APPLICATION AND DESIGN
3 sem. hrs.

Microcomputer applications with an emphasis on basic micro-computer architecture, interfacing peripherals, machine language programming, and system software design. Prerequisites: ACS 169, 254.

356 INTRODUCTION TO COMPUTER GRAPHICS
3 sem. hrs.

Graphics Systems: hardware, software, people. 2-D and 3-D Algorithms: lines, curves, polygons, surfaces, transformations. Applications: presentation graphics, packages. Prerequisites: ACS 279.

363 SYSTEMS DEVELOPMENT II
4 sem. hrs.

Emphasis on Analysis and Design techniques and tools, Project communication, Systems development methodologies, Interface design. Systems Development team project. Prerequisite: COM 223 and ACS 261.

365 SYSTEMS DEVELOPMENT TOOLS AND ISSUES
3 sem. hrs.

Modern systems development tools, implementation issues related to modern tools, techniques, and methodologies; emerging types of systems being developed. Prerequisite: ACS 363.

367 DESIGNING THE USER INTERFACE
3 sem. hrs.

Human factors issues in developing information systems: task analysis, user interface design guidelines, psychological principles, prototyping interfaces, and user evaluation. Prerequisite: ACS 261.

368 TOPICS IN SYSTEMS DESIGN
3 sem. hrs.

Advanced topics in systems analysis, design, and development. Prerequisite: Vary with offering. May be repeated if content different. Materials charge optional.

372 EXTERNAL DATA STRUCTURES
3 sem. hrs.

External file design, VSAM, IBM utilities and sort/merge, basic concepts of IBM/MVS operating systems, and extensive study of JCL. Prerequisite: ACS 254, 272.

374 TOPICS IN TELECOMMUNICATIONS
3 sem. hrs.

In-depth study of a topic in Telecommunications such as emerging technologies, network administration, network management architectures and wireless communications. Prerequisite: Vary with topic chosen. May be repeated if content different.

375. INTRODUCTION TO DATA COMMUNICATIONS
3 sem. hrs.

Introduction to hardware and software used in data communications and networking. Network types, architectures and protocols and standards. Local area and packet networks. Prerequisites: ACS 169, 254.

376 INTRODUCTION TO ONLINE SYSTEMS
3 sem. hrs.

Design, development and implementation of online system applications using CICS with studies in data communications concepts, hardware, man-machine interaction, networking, and distributed processing. Prerequisites: ACS 261, 372.

377 PRACTICAL TELECOMMUNICATIONS NETWORKING
3 sem. hrs.

Design, configure, operate and use Local Area Networks, network applications, and wide area network concepts. Emphasizing hands-on use of a network operating system. Prerequisite: ACS 375.

378 DATABASE PROCESSING
3 sem. hrs.

Database concepts, emphasis on relational databases, SQL, data modeling, database design, DBMS functions, database application programming, current trends, design project. Prerequisite: ACS 261.

379 TELECOMMUNICATIONS NETWORK OPERATIONS AND MANAGEMENT
3 sem. hrs.

Overview of process of operating and managing large scale telecommunications networks; capstone course for Telecommunications Management major. Prerequisites: ACS 377, IT 383, ECO 235, and MQM 220.

383 PRINCIPLES OF OPERATING SYSTEMS
3 sem. hrs.

Functional criteria for operating system design. Job management, task management, data management, resource allocation, and dump and trace facilities. Prerequisite: ACS 254.

385 TOPICS IN COMPUTER SCIENCE
3 sem. hrs.

In-depth study of a topic such as compiler design, artificial intelligence, programming language, and digital logic design. May be repeated if content different. Prerequisites: Vary with offering. Materials charge optional.

386 ANALYSIS OF ALGORITHMS
3 sem. hrs.

In depth study of formal techniques for analyzing the efficiency of both serial and parallel algorithms. Prerequisites: ACS 279, MAT 145, one of MQM 100, MAT 350, PSY 240.

**388 INTRODUCTION TO
PARALLEL PROCESSING**
3 sem. hrs.

This course includes the study of parallel processors and their software environments. Students will write programs for several parallel computers. Prerequisites: ACS 254, 279. Materials charge optional.

400 INDEPENDENT STUDY
1-3 sem. hrs.

Prerequisite: Consent of department. Materials charge optional.

**401 INTRODUCTION TO MICROCOMPUTERS
IN THE SCHOOLS**
3 sem. hrs.

Provides teachers and administrators with appropriate information to evaluate and infuse microcomputers and software into an educational environment. Also offered as EAF 401. Not for graduate credit for ACS majors.

**427 PRINCIPLES OF PROGRAMMING
LANGUAGES**
3 sem. hrs.

Advanced study of pragmatic, syntactic and semantic structure of programming languages. Procedural, logic oriented, object oriented and other contemporary languages included. Prerequisites: Two high level programming languages.

432 SYSTEMS ANALYSIS AND DESIGN
3 sem. hrs.

Study of systems development life-cycle emphasizing current techniques for documenting users' requirements and producing maintainable, cost effective systems. Prerequisites: ACS 261 and a two-semester sequence in a high-level programming language. Not for credit if ACS 363 has already been taken.

**440 ARTIFICIAL INTELLIGENCE AND
EXPERT SYSTEMS**
3 sem. hrs.

Advanced study of artificial intelligence principles, software, and major areas of application. Emphasis on expert systems. Prerequisites: 2 semester sequence in a high-level programming language.

451 INFORMATION SYSTEM SECURITY
3 sem. hrs.

Information system security issues including identification, cost estimation, and control of risks. Prerequisites: ACS 432 or 460.

456 ADVANCED COMPUTER GRAPHICS
3 sem. hrs.

Advanced graphics techniques emphasizing 3-dimensional images. Standards, representation of scientific phenomena, animation, and image processing are also studied. Prerequisite: ACS 356.

460 SOFTWARE DEVELOPMENT PRACTICES
3 sem. hrs.

Study of modern methods, techniques, and tools for software development. Topics include: end-user computing, prototyping, and productivity tools. Prerequisites: ACS 432 or 363.

463 CONTROLLING SOFTWARE DEVELOPMENT
3 sem. hrs.

Techniques for planning and supervising software development projects, allocating resources, projecting costs, and tracking project progress. Prerequisites: ACS 432 or ACS 460.

**467 HUMAN FACTORS IN INFORMATION
SYSTEMS**
3 sem. hrs.

Human factors issues in developing information systems: design guidelines, psychological principles, incorporation into a systems development life cycle. Prerequisites: ACS 432 or ACS 460.

**468 SOFTWARE QUALITY ASSURANCE
AND TESTING**
3 sem. hrs.

Major techniques for improving software quality; quality assurance, software controls, and software testing. Prerequisite: ACS 432 or 460. Materials charge optional.

**475 ADVANCED DATA COMMUNICATIONS
AND NETWORKS**
3 sem. hrs.

Study of network design, standards, and protocols; hardware and software; layered network architecture; telecommunications access methods; terminals and data streams. Prerequisite: ACS 375 or ACS 376.

478 ADVANCED DATABASE MANAGEMENT
3 sem. hrs.

Theory, design, and implementation of application systems using database technology. Data modeling, database administration, database implementation, performance issues, current trends. Prerequisite: ACS 378.

**485 ADVANCED TOPICS IN APPLIED
COMPUTER SCIENCE**
3 sem. hrs.

In depth study of an advanced, state-of-the-art topic. Contents vary each semester. May be repeated. Prerequisites vary with topic offered.

494 GRADUATE DIRECTED PROJECT
1-4 sem. hrs.

Software development practicum for graduate students. Designed to integrate computer related skills in an intensive project environment. Prerequisites: Consent of Graduate Program Committee. May be repeated. A maximum of 6 hours may be counted toward a master's degree.

499 MASTER'S THESIS
1-6 sem. hrs.

CRIMINAL JUSTICE SCIENCES (CJS)

Acting Chairperson: Thomas Ellsworth, Office: 401 Schroeder Hall.

Graduate Faculty: S. Cox, T. Ellsworth, D. Falcone, M. Fleisher, L. Guyon, S. Kethineni, H. Lesieur, F. Morn, B. Smith, R. Weisheit, L. Wells.

Master's Degree in Criminal Justice Sciences

The Department of Criminal Justice Sciences offers a program leading to the M.A. or M.S. degree. The primary purpose of the program is to provide students with the skills to analyze crime and criminal justice policies. Those skills prepare students for advanced graduate study and/or careers in the administration of criminal justice. Course work in the program is designed to develop individual thought processes and facilitate the development of analytical abilities and professional skills.

Core areas of study include: (1) Research Methods; (2) The Nature of Crime; (3) The Criminal Justice System; and (4) Management and Policy. Through the advanced study of theoretical and applied issues in criminal justice, Master's degree students will be prepared to assume leadership positions in the field of criminal justice at various levels of government or in the private sector or pursue continued graduate education. Study in criminal justice is interdisciplinary, drawing on concepts, theories and applications from psychology, sociology, political science and other social and behavioral sciences.

The curriculum is flexible, permitting students to pursue course work reflective of individual interests and professional goals. The program is designed to provide the students with a basic foundation in the field of criminal justice. Specialization is possible through careful selection of electives in collaboration with faculty mentors and with the approval of the graduate adviser. By the end of the first semester, each graduate student will be assigned a faculty mentor to assist the student in developing his or her program of study.

Students with an undergraduate degree in a related social or behavioral science are often well prepared to enter the Master's program. Prospective graduate students unfamiliar with the discipline are provided with the Criminal Justice Sciences Reading List. This list includes readings in each of the four core areas and thus allows the student to become familiar with noted works in the field.

Admission Requirements

All University and Graduate School requirements for admission to a degree program of the Graduate School will apply. Additional departmental requirements are listed below. Applicants must have a bachelor's degree from an accredited university or college with a grade point average (GPA) of at least 3.2 on a 4.0 scale in the last 60 hours of undergraduate work. Applicants must submit scores from the Graduate Record Examination (GRE) prior to full admission to the graduate program; those with scores totaling 900 (Verbal and Quantitative sections of the General Test) will be given preference.

Applicants must complete a written statement concerning background, career goals and interest in criminal justice. The statement must be completed and received in the Department office prior to full admission to the graduate program. The Department will supply the forms for the written statement to all applicants.

Each student's transcript and application materials will be reviewed by the Department's graduate adviser and admissions committee during the admission process.

Program Requirements

The Department offers both thesis and comprehensive examination options for completion of the master's degree. Students choosing the thesis option must complete 32 hours of course work including CJS 499 for six (6) hours of credit. Required courses for the thesis option include CJS 401, 402, 412, 415, 421, 423, 497, 499, and five (5) hours of electives selected with the cooperation of the student's mentor and the approval of the graduate adviser. The electives will be selected from appropriate graduate course offerings in Criminal Justice Sciences, Sociology, Political Science, and other departments. Courses at the 300 level may be taken only with the approval of the graduate adviser.

Students choosing the comprehensive option must complete 34 hours of course work and successfully pass a comprehensive examination in four areas. Required courses for the com-

prehensive option include CJS 400 (4 hours), 401, 402, 412, 415, 421, 423, 497, and nine (9) hours of electives from appropriate graduate course offerings in Criminal Justice Sciences, Sociology, Political Sciences, and other departments. Courses at the 300 level may be taken only with the approval of the graduate adviser.

Internship in Criminal Justice Sciences

Each student working toward a Master's degree in Criminal Justice Sciences may enroll in the internship course (CJS 498). The student will be required to work in a criminal justice agency for eighteen hours per week throughout the semester. The internship provides the student with the opportunity to integrate classroom theory with practical experience. The program is designed to acquaint the graduate student with managerial principles and problems, so that he or she will be better qualified to assume management positions in criminal justice. Students will normally not be approved for enrollment in an internship prior to completion of sixteen graduate hours. The department has a full-time internship coordinator who arranges placement, provides supervision, and evaluates student performance.

Courses

300 EVALUATIVE RESEARCH OF PROGRAMS IN CRIMINAL JUSTICE

3 sem. hrs.

Course enables students to analyze research in criminal justice and systematically evaluate the process and outcome of programs in the field. Prerequisite: CJS 101, or consent of department.

303 POLICE ATTITUDES AND BEHAVIOR

3 sem. hrs.

An analysis of police attitudes and behavior focusing on occupational roles, police social systems, community/minority relations, and police practices. Prerequisite: CJS 101, or consent of department.

304 CRIMINAL LAW

3 sem. hrs.

Survey of criminal law including development of substantive criminal law. Examination of judicial opinions related to the criminal justice process. Prerequisite: CJS 101, or consent of department.

305 RULES OF EVIDENCE FOR THE ADMINISTRATION OF JUSTICE

3 sem. hrs.

Examination of types of evidence, standards of proof, and legal requirements relating to the admissibility of evidence in court. Prerequisite: CJS 101, or consent of department. POS 326 recommended.

310 CORRECTIONAL INSTITUTIONS

3 sem. hrs.

An intensive analysis of correctional institutions and jails focusing on management issues, inmate subcultures and prisonization. Prerequisites: CJS 101, 200, or consent of department. Major/minor only.

322 CORRECTIONAL COUNSELING

3 sem. hrs.

Development of interpersonal communication and decision-making skills for direct intervention with correctional clients. Prerequisite: CJS 201, or consent of department.

338 ALCOHOL, DRUGS, AND CRIME**3 sem. hrs.**

Analysis of the impact of alcohol and drugs on crime and criminal justice system. Prerequisite: CJS 101 or consent of department.

339 WOMEN IN CRIMINAL JUSTICE**3 sem. hrs.**

Examines historical and theoretical perspectives and contemporary trends concerning women and crime, and processing of women by the criminal justice system. Prerequisite: CJS 101, or consent of department.

340 ORGANIZED AND WHITE COLLAR CRIME**3 sem. hrs.**

Analysis of organized and white collar crime problems in America. Topics include prevalence, impact, laws, and investigative techniques. Prerequisite: CJS 101, or consent of department.

360 ISSUES IN CRIMINAL JUSTICE**1-4 sem. hrs.**

A critical and analytical study of a contemporary issue or controversy in the field of criminal justice. May be repeated once (for a maximum of six hours) if content different.

369 WORLD CRIMINAL JUSTICE SYSTEMS**3 sem. hrs.**

Analysis of crime and criminal justice systems of selected countries. Emphasis upon England, France, Japan, Russia, and India. Prerequisite: CJS 101 or consent of instructor.

400 INDEPENDENT STUDY**1-4 sem. hrs.**

Refer to Index for General Courses. Majors only.

401 CRIMINOLOGICAL THEORY**3 sem. hrs.**

An intensive study and critical analysis of criminological theories and their contribution to the field of criminal justice. Majors only.

402 ISSUES IN JUSTICE**3 sem. hrs.**

A critical review of major contributions to the literature of criminal justice with an emphasis on analysis of problems. May not be repeated. Majors only.

412 CORRECTIONAL SYSTEMS**3 sem. hrs.**

Critical review and analysis of institutional and community-based corrections as impacted by the political, social, and economic systems. Majors only.

415 POLICING AND SOCIETY**3 sem. hrs.**

Organizational and operational policing from comparative and historical perspectives which have been derived through statistical, observational and survey methodologies. Majors only.

421 MANAGEMENT ISSUES IN THE CRIMINAL JUSTICE SYSTEM**3 sem. hrs.**

An examination of selected criminal justice system management issues and problems focusing specifically on law enforcement, the courts, and corrections. Majors only.

423 INTERVENTION STRATEGIES FOR CRIMINAL JUSTICE PERSONNEL AND CLIENTS**3 sem. hrs.**

A study of intervention strategies utilized to cope with psychosocial human interaction problems in the criminal justice system. Prerequisite: CJS 322 or equivalent. Majors only.

464 THEORIES AND TECHNIQUES OF COUNSELING**3 sem. hrs.**

Goals, methods, and procedures of different theoretical positions. Emphasis is on interpersonal dimensions of the counseling interview. Offered in SED or PSY.

465 SOCIOLOGY OF FORMAL ORGANIZATIONS**3 sem. hrs.**

Analysis of classical organizational models including: Weberian, Classical Management, Human Relations, Decision Making, and Political Process. Focus on environmental, contextual, structural, process, and performance dimensions of organizations. Offered in SOC.

467 SOCIOLOGY OF LAW**3 sem. hrs.**

Sociological theories of law and research on law in society. Attention to judicial and jury decision-making, legal structures, legislation, power, beliefs, conflict, and social change. Public, civil, and criminal law included. Offered in SOC.

497 INTRODUCTION TO RESEARCH**3 sem. hrs.**

Selection of a research problem, collection of data, types of research, the research report, and use of the library in connection with the research problem. Emphasis on understanding and interpreting frequently used statistical concepts. Provides a background for the preparation of the thesis. Enables the student to become an intelligent consumer of the products of educational research. Prerequisite: CJS 300 or an equivalent undergraduate research/statistics course. Majors only.

498 PROFESSIONAL PRACTICE IN CRIMINAL JUSTICE**3 sem. hrs.**

Refer to Index for General Courses.

499 MASTER'S THESIS**1-6 sem. hrs.**

Family and Consumer Sciences (FCS)

Chairperson: Connie Ley. Office: Turner Hall 144.

Graduate Faculty: M. Canabal, M. Garner, D. Gentry, S. Kern, C. Ley, A. Lupo, J. Memken, N. Nnakwe, M. Power, J. Shane, S. Winchip.

Master's Degree in Family and Consumer Sciences

The department offers work leading to the degrees M.A., M.S. Each student may choose either: (A) 32 semester hour program which includes a thesis; or (B) 39 semester hour program of course work. Consideration for admission to the program students are to have a minimum grade point average of 2.8 on a 4.0 scale and GRE verbal score of 420. Students who do not hold an undergraduate degree in family and consumer sciences must complete deficiency work determined by the graduate adviser. For both the 32 and 39 semester hour options students must complete FCS 408, 412, 445, and 497 (2 semester hours of FCS 400

must be taken concurrently with FCS 497). In addition, all students must complete one three semester hour graduate professional writing course which will be determined in consultation with the graduate adviser. The 32 hour program requires at least 15 semester hours numbered 400 and above and at least 16 hours in family and consumer sciences. The 39 semester hour program requires at least 18 semester hours in courses numbered 400 or above and at least 20 hours in family and consumer sciences.

A career option leading to general administrative endorsement with emphasis in vocational education is offered in cooperation with the Department of Educational Administration and Foundations through Agriculture, Business Education and Administrative Services, Family and Consumer Sciences, and Industrial Technology departments. Students interested in the vocational emphasis should (A) see department chairperson and (B) submit an Intent to File for Certification form in the Office of Clinical Experiences and Certification Processes. All students who plan to receive certification for the State of Illinois via an approved Illinois State program must file official forms and follow specific procedures. Certification is not given automatically at the completion of specific course work or degree program.

Professional Development Sequence in Social Aspects of Aging

Social Aspects of Aging Sequence is a multidisciplinary program designed to offer a limited number of academically and professionally oriented graduate experiences in aging. The sequence is housed in the Graduate School with advisement provided by the Family and Consumer Sciences Department in cooperation with the Departments of: Sociology and Anthropology, Psychology, and Speech Pathology and Audiology.

Requirements for Admission to the Program: Potential applicants must have earned a bachelor's degree (or equivalent) and meet the requirements for admission to the Graduate School as students-at-large. Credit for courses may be applied to a graduate degree program if approved by a specific graduate program. (See Policy of Graduate School.) Potential applicants may contact the Graduate School or specific department advisers for application forms and further information.

Sequence Requirements: 12 hours required, which includes 1) Seminar in Gerontology (3 hours) to be taken after at least six of the other required hours have been completed, and 2) 9 hours of electives from among the following gerontology related courses:

Required Course (3 hours)

Seminar in Gerontology (SOC 469.08) Advanced treatment of gerontology including approximately one-third in overview of current gerontological issues plus selected topics in gerontology, e.g. Economics of Aging, Cross-Cultural Aspects of Aging, the Future of Aging.

Elective Courses (9 hours)

Health Aspects of Aging (HSC/FCS 394) Characteristics of the aging process and factors influencing adaptation and the quality of living.

Gerontological Psychology (PSY 304) Psychological aspects of developmental transformations occurring during later adulthood. Application of psychology to problems of aging.

Human Communication and the Aging Process (COM 331) An examination of the particular communication needs of the aging and current research in the field.

Families in Later Life (FCS 305) Exploration of family dynamics in later life. Emphasis on developmental tasks, needs, and decision-making issues of aging family members.

Experience in Gerontology: Each student enrolled in the Sequence may negotiate with the Sequence Representative in the sponsoring department credit for 3 hours of "experience" in gerontology. This may include, but is not limited to, 400 Independent Study or 498 Professional Practice in any department/program which is relevant to the Sequence. Each "experience" is expected to involve some focused writing and analysis assignments. This experience should ordinarily be permitted after other courses are completed - at least *Seminar in Gerontology*. If the experience is of a "selected problems" type, a proposal should be approved by the Departmental Sequence Adviser no later than the 5th week of the semester.

Courses

305 FAMILIES IN LATER LIFE

3 sem. hrs.

Exploration of family dynamics in later life. Emphasis on developmental tasks, needs, and decision-making issues of aging family members.

307 INFANT AND PRESCHOOL CHILD

3 sem. hrs.

Research in the growth and behavior of the young child as related to family and society. Includes clinical experiences. Prerequisites: PSY 111; FCS 101 and 250. Includes clinical experiences 32 hours, Type 1.

308 ORGANIZATION AND ADMINISTRATION OF EARLY CHILDHOOD PROGRAMS

3 sem. hrs.

Administration of early childhood programs and community services responsible for guidance of young children. Includes clinical experiences 20 hours, Type 10. Prerequisite: FCS 250 or consent of instructor. Includes clinical experiences.

309 COUPLE RELATIONSHIPS

3 sem. hrs.

An interactional approach to the study of intimate male-female pairings: establishing couple relationships and developing effective intimate pairing communications; an overview of marriage enrichment history, programs, practice, theory and research. Prerequisite: FCS 231.

310 FAMILY CRISES

3 sem. hrs.

Cognitive and affective exploration of family crisis definition, the relationship-termination crises of death and divorce, and overview of professional helping resources. Field trips.

311 COMMUNITY NUTRITION

3 sem. hrs.

Nutritional needs of selected populations vulnerable to inadequate diet; emphasis on U.S. programs designed for groups at nutritional risk. Prerequisite: FCS 102 or 106.

312 DIET THERAPY

3 sem. hrs.

Planning modified diets and studying underlying diseases. Nutritional counseling of individuals and groups. Prerequisite: FCS 216.

313 FOOD CUSTOMS

2 sem. hrs.

Influence of food customs of various ethnic groups on American meal patterns. Prerequisite: FCS 213. Materials charge optional.

314 EARLY CHILDHOOD NUTRITION EDUCATION
3 sem. hrs.

Principles of nutrition and current research. Emphasis on the needs of young children. Guidance in implementing a sound nutritional education program. Includes clinical experiences.

315 NUTRITION FOR HEALTH AND PHYSICAL FITNESS
3 sem. hrs.

An advanced course focusing on the physiological and biochemical importance of nutrition to health, physical fitness and sports. Prerequisites: FCS 102 or 106 or consent of instructor and HPR 182 or BSC 181 and 182.

316 FOOD SCIENCE
3 sem. hrs.

Experimental approach to principles underlying food preparation. Prerequisites: FCS 213, CHE 110 and 112. Materials charge optional.

318 FOOD SERVICE MANAGEMENT
3 sem. hrs.

Management of commercial foodservice systems: planning, control systems, decision making, human considerations. Prerequisites: FCS 103 and 213.

319 QUANTITY FOODS
3 sem. hrs.

Principles, techniques, and standards, required to procure, store and prepare food in quantity for institutional and commercial feeding. Prerequisite: FCS 213. Field trips.

320 PRESENTATION AND DEMONSTRATION TECHNIQUES
2 sem. hrs.

Techniques and standards for presentations and demonstrations in various areas of family and consumer sciences. Includes clinical experiences 20 hours, Type 1 & 6; 5 & 10.

322 FLAT PATTERN DESIGN
3 sem. hrs.

Computer and hand techniques in making garment patterns by the flat pattern method. Prerequisite: FCS 122 or 220 or equivalent. Materials charge optional.

323 ADVANCED TEXTILES
3 sem. hrs.

Developments in the textile field, particularly man-made fibers and their products. Textile testing techniques. Prerequisite: FCS 225. Lecture and laboratory. Materials charge optional.

324 DRAPING AND DESIGN
3 sem. hrs.

Interpretation of garment designs in fabric by means of the draping procedure. Prerequisite: FCS 122 or 220. Materials charge optional.

325 TAILORING
3 sem. hrs.

Comparative study and construction of suits and coats using recognized techniques that insure professional products. Prerequisite: FCS 122 or 220 or consent of instructor. Material charge optional.

326 FITTING AND PATTERNMAKING
3 sem. hrs.

Investigation and comparison of various methods of fitting and patternmaking for different age groups, using both hand and computer techniques. Prerequisite: FCS 122 or 220 or equivalent. Materials charge optional.

327 CLOTHING AND BEHAVIOR
3 sem. hrs.

Factors which influence behavior in respect to clothing selection and use. Emphasis on research. Prerequisite: FCS 226, SOC 106 or PSY 111.

328 ECONOMICS OF FASHION
3 sem. hrs.

Fashion as an economic force. Fashion's influence on production, distribution and consumption of textiles and clothing. Prerequisites: FCS 226 and ECO 101.

329 APPAREL PRODUCT ANALYSIS
3 sem. hrs.

Overview of apparel manufacturing and analysis of ready-to-wear apparel product quality. Prerequisites: FCS 122 or 220, 225, 226.

330 DECISION-MAKING FOR CONSUMERS
3 sem. hrs.

Survey of consumer problems, trends, and information. Topics include: insurance, housing, credit, life style, consumer protection, leisure, and achieving financial security. Also offered as BEA 330.

331 CONSUMER MATERIALS
3 sem. hrs.

Application and evaluation of consumer information sources. Prerequisite: FCS 103 required. FCS 233 recommended.

333 FAMILY AND CONSUMER PUBLIC POLICY
3 sem. hrs.

Public and private sector programs serving human needs: role of family and consumer sciences in the public policy arena. Prerequisite: FCS 103 required. FCS 233 recommended.

338 HISTORY OF FURNISHINGS AND INTERIORS
3 sem. hrs.

Furnishings and interiors from antiquity to the late nineteenth century. Prerequisite: FCS 104 recommended.

340 INTERIOR DESIGN I: STUDIO
4 sem. hrs.

Design principles applied to residential space. Students examine the ways in which rooms are affected by various design elements. Materials charge optional. Lecture and laboratory. Prerequisites: FCS 225 and 242 required. FCS 244 and IT 211 concurrent registration recommended.

343 CONSUMER HOUSING ALTERNATIVES
3 sem. hrs.

Facts, concepts, perceptions regarding the housing alternatives confronting consumers seeking housing commensurate with current needs and future demands. Prerequisite: FCS 244. Field trips.

345 ENVIRONMENTAL DESIGN AS A PROFESSION
2 sem. hrs.

Professional principles and practice of interior design careers, including systems, forms, and logistics of money and materials. Prerequisite: FCS 340.

346 ENVIRONMENTAL LIGHTING
2 sem. hrs.

The design of the luminous environment. Emphasis on lighting methods, lighting system elements, and energy conservation. Prerequisite: FCS 244.

347 HUMAN FACTORS IN INTERIOR ENVIRONMENTS

2 sem. hrs.

Functional and aesthetic aspects of interior environments. Emphasis on interface between man-made environments and humans. Needs of special populations addressed. Prerequisite: FCS 244.

361 FASHION HISTORY

3 sem. hrs.

Fashion from antiquity through the nineteenth century, with emphasis on apparel of the western world. Prerequisite: FCS 226.

362 TWENTIETH CENTURY FASHION

3 sem. hrs.

Twentieth century fashions; the personalities and cultural forces that influence them. Prerequisite: FCS 226 required. FCS 361 recommended.

365 DESIGN STUDIO

3 sem. hrs.

Advanced problem solving in apparel or environmental design. Prerequisite: FCS 340 and ART 352, or FCS 228 and two from FCS 322, 324, 325, 326.

368 FASHION PROMOTION

3 sem. hrs.

Apparel merchandising techniques with emphasis on visual merchandising advertising, fashion shows, and related promotional activities. Prerequisites: FCS 226.

369 FASHION MERCHANDISING

3 sem. hrs.

Management and operation of apparel retail firms with emphasis on store organization, salesmanship, inventory control, retail buying, and retail mathematics. Prerequisites: FCS 226, MKT 230, MQM 220. Field trips required.

370 INTERIOR DESIGN II: STUDIO

4 sem. hrs.

The process of linking spaces using architectural elements. Emphasizing the design process as it affects private and public spaces. Prerequisites: FCS 218, 340, Art 352. Field trips. Materials charge optional.

375 INTERIOR DESIGN III: STUDIO

4 sem. hrs.

Study of design theory/analysis in relation to large-scale, comprehensive commercial interiors. Emphasis on codes regulating ergonomic and life safety issues. Prerequisite: FCS 370. Materials charge optional.

380 ORGANIZATION AND ADMINISTRATION OF VOCATIONAL COOPERATIVE EDUCATION PROGRAMS

3 sem. hrs.

Planning and organizing a cooperative program; emphasis on recruitment, selection of training stations, student placement, and operation of cooperative plan. Offered also as BEA 380. Includes clinical experience 5 hrs, Type 10.

382 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS

3 sem. hrs.

Coordination techniques needed for high school and post-secondary teacher coordination in integrating classroom activities with daily employment. Offered also as BEA 382 or IT 306. Includes clinical experiences 5 hours, Type 10.

394 HEALTH ASPECTS OF AGING

3 sem. hrs.

Characteristics of the aging process and factors influencing adaptation and the quality of living. Also offered as HSC 394 and HPR 394.

400 INDEPENDENT STUDY

1-4 sem. hrs.

See Index for General Courses.

402 SEMINAR IN FAMILY AND CONSUMER SCIENCES

2 sem. hrs.

Each student reviews research and exchanges information, problems, and results by informal lectures, reports, and discussions. May be repeated.

408 HUMAN DEVELOPMENT IN SOCIAL CONTEXT

3 sem. hrs.

Theories and research regarding human development and family dynamics and their relationship to apparel, housing, food, nutrition, and other family resources. Offered in the Fall semester.

412 ADVANCED FAMILY RESOURCE MANAGEMENT

3 sem. hrs.

Exploration of theories regarding the managerial behavior of families. Impact of decisions about resource use on the various family environments. Offered in the Spring semester.

420 ADVANCED NUTRITION

3 sem. hrs.

Nutrition research applied to improved dietary planning.

424 SELECTED PROBLEMS IN FAMILY AND CONSUMER SCIENCES

1-6 sem. hrs.

Prerequisite: Approval by department graduate coordinator. May be repeated.

445 STATISTICS IN APPLIED SCIENCE AND TECHNOLOGY

4 sem. hrs.

Descriptive and inferential statistics in the applied sciences; statistical analysis using microcomputer applications. Also offered as AGR/HPR 445.

491 INTERNSHIP IN COLLEGE TEACHING IN FAMILY AND CONSUMER SCIENCES

3 sem. hrs.

(See Curriculum and Instruction 491.)

497 INTRODUCTION TO RESEARCH METHODOLOGY

3 sem. hrs.

Selection of a research problem, collection and analysis of data, types of research, the research report, and use of library and data processing resources. Enables the student to become an intelligent consumer of the products of family and consumer sciences research; provides a background for the preparation of a thesis. To be taken during the first 12 hours of graduate work. Students should enroll in two (2) credits of FCS 400 Independent Study during the semester in which they enroll in FCS 497. Offered in the fall semester.

498 PROFESSIONAL PRACTICE: FAMILY AND CONSUMER SCIENCES

1-8 sem. hrs.

Refer to index for General Courses.

499 MASTER'S THESIS

1-6 sem. hrs.

HEALTH, PHYSICAL EDUCATION, AND RECREATION (HPR)

Chairperson: Marlene Mawson. Office: Horton 214.

Graduate Faculty: D. Brown, E. Chapman, D. Jones, W. Kauth, B. Keyser, S. Little, R. Liverman, P. Malik, M. Mawson, S. McCaw, M. Micke, M. Morrow, W. Sparks, N. Stumbo, D. Turco, E. Verner, W. Vogler, S. White.

Programs Offered

The HPR Department offers a Master of Science and a Master of Arts Degree in Health, Physical Education, and Recreation. Students seeking an Ed.D. in Educational Administration or Curriculum and Instruction may, with approval, have a program of study including credit hours in HPR. All students seeking an advanced degree should have an adviser to aid them in developing a plan of study.

Admission Requirements

Admission to the HPER Graduate Program as a degree student requires that the student meet all of the University Graduate School requirements. This includes an undergraduate grade point average (GPA) of at least 2.6 based on the last 60 hours of undergraduate course work and submission of Graduate Record Examination (GRE) test scores. A student may be denied admission as a degree student if the combined verbal and quantitative GRE scores are below 800. Students with an undergraduate GPA of 3.2 or higher for the last 60 hours of undergraduate study, but with a low GRE score, may be admitted upon review. Students with low GPA and low GRE scores will not be admitted to the degree program in HPER.

Program Requirements

The two degree options available are: (A) 32 semester hour program which includes a thesis; or (B) 39 semester hour program of course work. Both options require completion of a 6 hour CORE (HPR 497 - Introduction to Research Methods, and a basic graduate statistics course). For the thesis option, 15 hours of 400 level course work are required excluding 4-6 hours of Master's Thesis (HPR 499). A total of 24 hours of HPR courses is required in the thesis option which is inclusive of 6 hours of HPR courses in the CORE. For the 39 hour option, 18 hours of 400 level course work are required inclusive of 3 hours of Research Writing in HPER (HPR 450). A total of 27 hours of HPR courses is required in the 39 hour option which is inclusive of the 6 hours of HPR courses in the CORE. A plan of study is individually developed through faculty-student advisement. Areas of specialized study are available in Health Education, Physical Education and Recreation.

Courses

304 TEACHING OF SPORTS 3 sem. hrs.

Optimal learning in human movement: content, teacher behavior, situational conditions, analysis of sports, instructional approaches, application and research.

306 PSYCHOLOGY OF SPORT 3 sem. hrs.

Psychological principles and concepts applied to sport situations and to individuals involved with sport activities. Prerequisites: HPR 254 or consent of instructor.

307 EXERCISE IN HEALTH AND DISEASE 3 sem. hrs.

Application of exercise physiology principles to evaluate the extent to which common disease processes limit body function and exercise performance.

317 SOCIOLOGY OF SPORT 3 sem. hrs.

The social institution of sport is examined using such sociological concepts as social organization, culture, socialization, deviance, social stratification, minority groups and collective behavior. Also offered as SOC 317.

320 DEVELOPMENTAL ASPECTS OF YOUTH SPORT 3 sem. hrs.

Effects of sport and competitive physical activities on the biophysical and psychosocial development of young people. Prerequisite: At least one of the following: HPR 252, 253, 306, PSY 112, 301, 302, or consent of instructor.

342 OCCUPATIONAL BIOMECHANICS 3 sem. hrs.

Application of biomechanical principles to the solution of problems related to the interaction of the worker with the workplace. Prerequisites: HPR 181; HSC 271; PHY 108; MAT 120 or 121 or 145 or consent of instructor. Materials charge optional.

352 BIOMECHANICS OF HUMAN MOVEMENT 3 sem. hrs.

Amplification of kinematics, including kinetics of human movements; introduction to high speed cinematography, biomechanics instrumentation and computer analysis. Prerequisites: HPR 282, or consent of instructor; PHY 108, MAT 108 recommended. Materials charge optional.

353 ELECTROCARDIOGRAPHY 1 sem. hr.

Relationships of electrocardiographic complexes to the anatomy and physiology of the heart under selected conditions of health, disease, and exercise. Prerequisites: HPR 182 or consent of instructor.

373 LEISURE EDUCATION AND FACILITATION TECHNIQUES 3 sem. hrs.

Advanced study of leisure education models and concepts; applications and understanding of facilitation techniques in therapeutic recreation services. Prerequisites: HPR 273 or consent of instructor. Lecture and lab.

383 ADAPTED PHYSICAL EDUCATION 3 sem. hrs.

Handicapping conditions and methods, materials, and activities for adapted physical education programs in pre-school, elementary, secondary, and self contained schools. Includes clinical experiences 15 hours, Type 4. Prerequisite: HPR 181 or BSC 181.

385 PHYSICAL DISABILITIES: SURVEY AND REHABILITATION 3 sem. hrs.

Identification and treatment of physical defects of handicapped children; special services, equipment, and procedures for school programs. Prerequisite: BSC 381 or HPR 282. Also offered as SED 385. Lecture and laboratory. Includes clinical experiences approximately 16 hours, Type 1, 3, 6.

387 ADVANCED ATHLETIC INJURIES**3 sem. hrs.**

Concentrated study of specific athletic injury problems; attention given to nutrition, drugs, conditioning and rehabilitation. Prerequisite: HPR 284.

390 DRUGS IN SOCIETY**3 sem. hrs.**

Psychological, social, medical, legal and economic aspects of use, misuse and abuse of substances will be explored along with the implications for education and prevention. Also offered as HSC 390. Health Ed and HPR majors only.

394 HEALTH ASPECTS OF AGING**3 sem. hrs.**

Characteristics of the aging process and factors influencing adaptation and the quality of living. Also offered as HSC 394 and FCS 394.

395 MEDIA AND MATERIALS IN HEALTH EDUCATION**3 sem. hrs.**

Analysis and development of print and non-print materials and their use by health educators. Prerequisites: HSC 286 and 290. Also offered as HSC 395. Health Ed and HPR majors only.

396 HEALTH EDUCATION PLANNING AND PROMOTION**3 sem. hrs.**

Theory and application of health education program planning and promotion. Grantsmanship and evaluation will be emphasized. Prerequisite: HSC 286 and 290. Also offered as HSC 396. Health Ed and HPR majors only.

400 INDEPENDENT STUDY**1-4 sem. hrs.**

Refer to Index for General Courses. Materials charge optional.

401 CURRICULUM DEVELOPMENT IN PHYSICAL EDUCATION**3 sem. hrs.**

The nature of curriculum in physical education, with emphasis upon approaches for development, use of the discipline of human movement, pertinent content and processes, major concepts and relevant competencies.

404 ANALYSIS OF INSTRUCTION IN PHYSICAL EDUCATION**3 sem. hrs.**

Advanced study of analysis of teaching physical education through use and application of systematic observation instruments for purposes of research. Prerequisite: Teacher certification in physical education or consent of instructor.

405 APPLIED MOTOR LEARNING**3 sem. hrs.**

Motor learning and performance designed to apply theory to teaching practice in physical education. Prerequisite: HPR 257 or consent of instructor.

406 ADVANCED SPORT PSYCHOLOGY**3 sem. hrs.**

In-depth analysis and synthesis of current and foundational sport psychology topics through lectures, labs, and class projects. Prerequisite: HPR 446 or equivalent statistics course; HPR 306 or consent of instructor.

416 MOTIVATION IN SPORT AND EXERCISE**3 sem. hrs.**

Motivational factors affecting the performance of individuals in sport, physical education, and exercise domains will be examined. Prerequisite: HPR 306 or consent of instructor.

424 SUPERVISION OF PHYSICAL EDUCATION**2-3 sem. hrs.**

Techniques of supervision in elementary and secondary schools; in-service training of the supervisor; relationships with teachers, administrators and community.

445 STATISTICS IN APPLIED SCIENCE AND TECHNOLOGY**4 sem. hrs.**

Descriptive and inferential statistics in the applied sciences; statistical analysis using microcomputer applications. Also offered as AGR/FCS 445.

446 STATISTICAL APPLICATIONS IN HPER**3 sem. hrs.**

Microcomputer applications in descriptive and inferential statistics as they relate to research, tests, measurements, and evaluation in HPER. Prerequisite: EAF 410 or BSC 490 or SOC 440 or PSY 341 or equivalent. Materials charge optional.

450 RESEARCH WRITING IN HPER**3 sem. hrs.**

Intensive writing experience for organized research focusing on a topic of the student's interest in health, physical education, or recreation. Required for 39-hour option. Prerequisites: HPR 446 and 497.

451 ADVANCED EXERCISE PHYSIOLOGY: THEORIES OF PHYSICAL CONDITIONING**3 sem. hrs.**

An in-depth analysis of the theories and principles of physical conditioning for sport and physical activity. Prerequisites: HPR 181, 182 and 280 or consent of instructor.

454 NEUROMUSCULAR ASPECTS OF EXERCISE PHYSIOLOGY**3 sem. hrs.**

Structural, physiologic, and metabolic function of the neuromuscular system during exercise and following training. Prerequisite: HPR 481 or equivalent or consent of instructor.

460 ATHLETIC ADMINISTRATION**3 sem. hrs.**

Critical analysis of current issues that confront directors of athletics in schools and colleges in the administration of athletics with special reference to national, state, and local control.

462 LEGAL ASPECTS OF SPORT AND PHYSICAL EDUCATION**3 sem. hrs.**

Identification of problems, trends, and implications for sport and physical education through a study of statutory laws and ruling case law.

464 FACILITIES PLANNING IN HPER**3 sem. hrs.**

Exposure to the range of facilities in health, physical education, and recreation. Analysis of criteria/standards for planning, construction and utilization. Materials charge optional.

466 PROMOTION OF SPORT AND RECREATION
3 sem. hrs.

Application of promotional and strategic principles and concepts to develop, implement, and evaluate formal plans in sport and recreation. Prerequisite: MKT 403 or equivalent.

468 SEMINAR IN ADMINISTRATION OF SPORT, PHYSICAL EDUCATION, AND RECREATION
3 sem. hrs.

Student participation in discussion, reports and demonstrations to gain fluency in oral and written presentation relative to administration and development of physical education, sport and recreation.

470 ADVANCED COMMUNITY HEALTH
3 sem. hrs.

Analysis of interorganizational communication and cooperative efforts of local, state, national, and international health education organizations.

471 CURRICULUM DEVELOPMENT AND EVALUATION IN HEALTH EDUCATION
3 sem. hrs.

Examination of components, processes and products in health curriculum development and evaluation, and the development of skills in their use.

473 TRENDS AND ISSUES IN LEISURE SERVICES
3 sem. hrs.

In-depth analysis of selected trends, issues and problems confronting leisure service and recreation practitioners in contemporary settings.

474 CONCEPTS AND THEORIES OF LEISURE AND RECREATION
3 sem. hrs.

An examination of concepts, theories and determinants of leisure and recreation. Application of relevant research to leisure programs and services. Consent of instructor for non-HPR majors.

475 MANAGEMENT OF SPORT AND RECREATION
3 sem. hrs.

A course on contemporary management theory and practice as related to the effective operation of sport and recreation delivery systems. Materials charge optional.

477 PROFESSIONAL ISSUES IN THERAPEUTIC RECREATION
3 sem. hrs.

An in-depth investigation of contemporary professional issues and their relationship to current and future development of therapeutic recreation services. Prerequisites: HPR 273 or 279 or consent of instructor.

478 ACCOUNTABILITY IN THERAPEUTIC RECREATION SERVICES
3 sem. hrs.

Analysis of components of and factors affecting comprehensive program design, including planning, implementation, documentation, and evaluation of therapeutic recreation services. Prerequisites: HPR 273 or 279 or consent of instructor.

479 ASSESSMENT IN THERAPEUTIC RECREATION
3 sem. hrs.

Advanced study of assessment: including measurement properties, methods, techniques and procedures, selection of appropriateness for therapeutic recreation service delivery. Prerequisites: HPR 273 or 279 or consent of instructor.

480 EXERCISE AND BODY COMPOSITION
3 sem. hrs.

Theory and practice in the assessment and interpretation of exercise and body composition including age, gender, and racial variations. Prerequisite: HPR 481 or consent of instructor.

481 WORK METABOLISM
3 sem. hrs.

An investigation of the metabolic changes that occur during exercise stress in physical education and sport activities. Prerequisite: HPR 280, or consent of instructor.

482 ADVANCED BIOMECHANICS OF HUMAN MOVEMENT
3 sem. hrs.

Emphasis is on problems of human movement from both theoretical and experimental aspects utilizing contemporary methodology. Prerequisite: HPR 352 or equivalent. Materials charge optional.

485 ADVANCED SEMINAR IN ATHLETIC TRAINING
3 sem. hrs.

The advanced study and discussion of specialized topics and contemporary problems related to the field of athletic training. Prerequisite: Consent of instructor.

487 SPORTS MEDICINE: MEDICAL ASPECTS
3 sem. hrs.

A course for advanced study in the medical aspects of sports injuries: the medical specialties and their function in sports medicine. Prerequisites: Open to graduate students enrolled in Athletic Training Concentration and others with consent of coordinator of athletic training programs.

488 ADVANCED LAB/CLINICAL PRACTICE IN ATHLETIC TRAINING
3 sem. hrs.

Advanced laboratory and clinical practice of athletic training, sports medicine techniques, under the supervision of a certified athletic trainer. Prerequisite: Consent of the coordinator of athletic training.

491 INTERNSHIP IN COLLEGE TEACHING IN HEALTH, PHYSICAL EDUCATION, AND RECREATION
3 sem. hrs.

Credit in this course is given in Curriculum and Instruction. (See Curriculum and Instruction 491.)

492 ADVANCED CONCEPTS IN HEALTH EDUCATION
3 sem. hrs.

Examination of emerging concepts of health education related to the technological, psychological, and philosophical advances of society.

497 INTRODUCTION TO RESEARCH METHODOLOGY
3 sem. hrs.

Selection of a research problem, collection of data, types of research, the research report, and use of the library in connection with the research problem. Emphasis on understanding and interpreting frequently used statistical concepts. Provides a background for the preparation of the thesis. Enables the student to become an intelligent consumer of the products of educational research. Materials charge optional.

498 PROFESSIONAL PRACTICE HPER
1-12 sem. hrs.

Refer to Index for General Courses. Materials charge optional.

499 MASTER'S THESIS**1-6 sem. hrs.**

Refer to Index for General Courses. Materials charge optional.

500 INDEPENDENT STUDY**1-4 sem. hrs.**

A maximum of four hours may be applied toward the doctoral degree. Intensive study in a special area of the advanced student's interest under a qualified member of the faculty. Open only to doctoral students in EAF and C&I who have completed considerable work in a degree program, who are in good academic standing, and who have demonstrated ability to profit from independent study. A written proposal approved by the faculty member, the student's adviser, and the department chairperson is required prior to registration.

HEALTH SCIENCES (HSC)

Chairperson: Marilyn Morrow. Office: 103 Moulton Hall.**Graduate Faculty:** T. Bierma, B. Keyser, M. Micke, M. Morrow.

Note: Graduate degrees are not granted in the Department of Health Sciences. Graduate degrees are offered in the Health, Physical Education and Recreation Department. Course work is available as supplemental study or as electives in Health Sciences.

Courses

359 INDUSTRIAL HYGIENE**3 sem. hrs.**

Techniques for measurement, evaluation and control of chemical and physical hazards in occupational environments. Prerequisite: CHE 220; HSC 248; MAT 119 or 120 or 145 or consent of instructor. Majors only. Materials charge optional.

370 INDUSTRIAL ACCIDENT PREVENTION**3 sem. hrs.**

Principles, responsibilities, and techniques for developing, organizing, implementing and administering an industrial safety program. Prerequisites: PHY 108; MAT 120 or 121 or 145; HSC 271. Majors only.

371 ALCOHOL AND ACCIDENT PHENOMENON**3 sem. hrs.**

Effects of alcohol on accident causation. Psychological, physiological, pharmacological actions of alcohol in view of medical, sociological, religious and economic aspects.

372 ACCIDENT INVESTIGATION, RECORDS, AND EVALUATION**3 sem. hrs.**

Theory and function of accident investigation, reporting and analysis systems. Form design and utilization and cost evaluation procedures. Prerequisites: MAT 120 or 121 or 145; CHE 110 or 140; HSC 271. Majors only.

378 DISASTER PREPAREDNESS**3 sem. hrs.**

Organizing, directing, coordinating disaster services in schools, industry and local government. Includes T.B.A. weekend disaster exercise. Prerequisites: MAT 120 or 121 or 145; CHE 110 or PHY 108 or equiv. Materials charge optional.

380 FIRE PROTECTION AND PREVENTION**4 sem. hrs.**

Measures related to safeguarding human life and preservation of property in prevention, detection and extinguishing of fires. Prerequisite: MAT 120 or 121 or 145; HSC 271 and 381; CHE 110 and 112. Majors only. Materials charge optional.

381 OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)**3 sem. hrs.**

Interpretation of the provisions of the Occupational Safety and Health Act. The regulations, standards and reporting requirements pursuant to it. Prerequisites: MAT 120 or 121 or 145; HSC 271 and 370. Majors only.

382 SAFETY PERFORMANCE CONTROL**3 sem. hrs.**

Development of specialized knowledge and skills in problem-solving, evaluation and implementation of occupational safety programs. Prerequisite: HSC 204, 370 and 381. Majors only.

390 DRUGS IN SOCIETY**3 sem. hrs.**

Psychological, social, medical, legal and economic aspects of use, misuse and abuse of substances will be explored along with the implications for education and prevention. Also offered as HPR 390. Health Ed and HPR majors only.

394 HEALTH ASPECTS OF AGING**3 sem. hrs.**

Characteristics of the aging process and factors influencing adaptation and the quality of living. Offered as HPR 394 or FCS 394.

395 MEDIA AND MATERIALS IN HEALTH EDUCATION**3 sem. hrs.**

Analysis and development of print and non-print materials and their use by health educators. Prerequisites: HSC 286 and 290. Also offered as HPR 395. Health Ed and HPR majors only.

396 HEALTH EDUCATION PLANNING AND PROMOTION**3 sem. hrs.**

Theory and application of health education planning and promotion. Grantsmanship and evaluation will be emphasized. Prerequisite: HSC 286 and 290. Also offered as HPR 396. Health Ed and HPR majors only.

INDUSTRIAL TECHNOLOGY (IT)

Acting Chairperson: Wayne Nelsen. Office: Turner Hall 210.**Graduate Faculty:** R. Boser, P. Brauchle, H. Campbell, M. Daugherty, E. Francis, A. Gokhale, J. Liedtke, W. Lockwood, F. Loepp, R. Meier, L. Quane, K. Stier, G. Weede, A. Wiens, K. Williamson.

Programs Offered

The master's degree program provides opportunities for program emphasis in industrial technical training and industrial education. The department offers work leading to the Master of Science degree. University requirements for master's degrees are listed elsewhere in this catalog. All courses, including transfer courses, must be listed on the Plan of Study and approved by the graduate coordinator, chairperson, and Dean of the Graduate School. A student may choose among: (A) 32 semester hour program, including a thesis; (B) 32 semester hour program, plus a comprehensive examination; or (C) 39 semester hour program including a colloquium.

Admission Requirements

Admission to the master's degree program requires a minimum undergraduate cumulative GPA of 2.8 or a GPA of 3.0 in the last 60 hours. Program applicants must submit verbal and quantitative GRE scores. Students should submit to the department's graduate coordinator two letters of recommendation from professors or employers. Other significant professional experiences that may contribute to the applicant's readiness for graduate work, such as publications or research reports, or evidence of professional leadership activities, may also be submitted.

Scholastic Requirements for Graduate Assistants

A student must be in Academic Good Standing at the graduate level to retain a graduate assistantship.

Academic Advisement

Students seeking a master's degree in Industrial Technology should meet with the graduate coordinator of the department prior to enrollment in graduate courses. Deficiencies, if any, will be determined and a graduate adviser assigned. The student and adviser will plan the graduate program and submit the Plan of Study required by the Graduate School for the graduate coordinator's and chairperson's approval after the student completes 12 semester hours.

Curriculum Requirements

Students may select one of three options (thesis, comprehensive or 39 semester hours) in completing the M.S. degree. In each of these options, IT majors must complete required core courses (17 hours) consisting of IT 349, 497, 403, 406, 407 and 408. IT 349 may be waived if an equivalent course has been completed or proficiency demonstrated.

Students must also complete advanced technical preparation, which may include courses selected from the following: IT 400, 404, 412, 491, 498. In addition, 3 to 6 hours of 300 level technical courses may be included. No more than 9 hours may be taken in a combination of IT 400 and 498. Students may select courses in other departments by advisement.

Thesis Option: Students selecting the thesis option will complete the core requirements of 17 hours, 5 to 7 hours of advanced technical preparation, a thesis (4-6 hours) and electives to meet the minimum of 32 semester hours.

Comprehensive Exam Option: Students selecting the comprehensive option will complete the core requirement of 17 hours, 11 hours of advanced technical preparation courses, electives to meet the 32 semester hour requirement, and pass a comprehensive written/oral examination.

Thirty-nine Hour Option: Students choosing the 39-hour option will complete the 17 hour core requirement, 12 to 18 hours of advanced technical preparation courses, IT 496 and electives to meet the minimum of 39 semester hours. Students are strongly encouraged to complete at least 4 hours of IT 498 Professional Practice and 6 hours of electives in another discipline outside the College of Applied Science and Technology.

Courses

306 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS 3 sem. hrs.

Coordination techniques needed for high school and post-secondary teacher coordinators in integrating classroom activities with daily employment. Also offered as BEA 382 and FCS 382. Includes clinical experiences.

311 MANAGING INDUSTRIAL OPERATIONS 3 sem. hrs.

Principles, practices, and methods used to plan, organize, and manage a sequence of industrial operations used to produce a product. Prerequisites: MQM 100; PSY 230; and 75 hours.

312 FACILITIES PLANNING 2 sem. hrs.

Industrial/manufacturing facilities planning including space requirements, machine arrangements, flow lines, and environmental features. Prerequisites: MAT 144 or 120, or 145. Junior standing, IT and MQM majors only.

313 STATISTICAL QUALITY CONTROL 3 sem. hrs.

Use of statistical methods involving control charts, paretos, histograms, scattergrams, flow charts, and problem-solving techniques to manage and improve quality. Prerequisites: MQM 100; MAT 120 or 144 or 145; 8 hrs in an IT sequence.

314 ADVANCED QUALITY CONCEPTS FOR INDUSTRY 3 sem. hrs.

Total quality management concepts/techniques to organize and lead a technical enterprise. Prerequisite: IT 313.

315 COMPUTER-AIDED DESIGN FOR MANUFACTURABILITY 3 sem. hrs.

Design decisions and product manufacturability interaction, concurrent engineering tools, database development, applications in electro-mechanical design, FMS, etc. Prerequisites: IT 130 and 216.

317 COMPUTER-AIDED RENDERING AND ANIMATION 3 sem. hrs.

Using computer systems to create renderings and animated presentations of design ideas in an industrial or architectural setting. Prerequisites: IT 211 or 216.

318 PRODUCT MODELING AND ANALYSIS 3 sem. hrs.

Surface and solid modeling of parts and assemblies; parametric/associative design; mass properties analysis; interfacing to manufacturing and analysis programs. Prerequisites: IT 213 and 216.

319 COMPUTER GRAPHICS 3 sem. hrs.

Combination of graphic techniques and computer programming as means of industrial communication applied to solution and interpretation of technological problems. Also offered as COM 319. Prerequisite: IT 210, 216, or demonstrate equivalent competencies.

322 BUILDING CODES AND INSPECTIONS 2 sem. hrs.

Model construction codes and the application and administration of minimum standards for public safety. Prerequisite: IT 211 or 221.

323 CONSTRUCTION COST ANALYSIS 3 sem. hrs.

Computerized and manual estimating, cost analysis, and bidding procedures in the residential and commercial construction industries. Prerequisite: IT 222, 224, and 225. Lecture/lab. Materials charge optional.

325 CONSTRUCTION SCHEDULING AND FINANCE**3 sem. hrs.**

Schedules, critical path method, logical and network diagrams, schedule of values, and cash flow analysis for construction projects. Prerequisites: IT 120 and 121.

334 INDUSTRIAL TOOL DESIGN AND FABRICATION METHODS**4 sem. hrs.**

Introduction to production tooling and plastics mold-making practices. Prerequisite: IT 233. Materials charge optional.

345 INDUSTRIAL PROCESS CONTROL**3 sem. hrs.**

Reprogrammable and pneumatic logic automated control systems for industrial production processes. Prerequisites: IT 263, 240, and ACS 155 or demonstrated equivalent competencies. Materials charge optional.

346 MICROPROCESSOR SYSTEMS**4 sem. hrs.**

Theory and application of the internal workings of microprocessors and microcomputers and special application microprocessors. Prerequisites: ACS 155.02 and IT 244. Materials charge optional.

349 TECHNICAL WRITING II**3 sem. hrs.**

Instruction and practice editing, proposals, and analytical writing; attention given to style manuals, research writing, and (as needed) publication. Prerequisite: ENG 249 or graduate standing. Also offered as ENG 349.

351 IMAGE CARRIERS AND IMAGE TRANSFER**3 sem. hrs.**

Theory and laboratory practice in negative assembly, plate making, proofing and press systems. Prerequisite: IT 250 or demonstrated equivalent competencies. Materials charge optional.

352 CHARACTER GENERATION**3 sem. hrs.**

Theory, laboratory practice on computerized photographic, digital, and laser imagesetting equipment. Input and editing concepts are included. Prerequisite: IT 250 or demonstrated equivalent competencies. Materials charge optional.

353 COLOR SEPARATION**3 sem. hrs.**

Theory of color, modern color separation methods, including laser scanning; fake color; transmission and reflection copy; color correction; additive and subtractive color. Prerequisite: IT 253 or demonstrated equivalent competencies. Materials charge optional.

354 GRAPHIC ARTS MANAGEMENT**3 sem. hrs.**

Management of the graphic arts industrial organization including human resources, physical assets, and efficient production of graphic communications products. Prerequisite: IT 250 or demonstrated equivalent competencies and completion of 75 hours required. Field trips.

355 SCREEN PRINTING SYSTEMS**3 sem. hrs.**

Advanced study of screen printing processes using applications with an emphasis on quality, troubleshooting, and control of the printed image. Prerequisite: IT 250.

367 PASSIVE SOLAR TECHNOLOGY**4 sem. hrs.**

Principles, theory and laboratory practice in passive solar applications. Prerequisite: IT 191 or 211 or 221, or consent of instructor. Materials charge optional.

368 ENERGY MANAGEMENT**3 sem. hrs.**

Principles of efficiency analysis, optimization, and control of energy usage with an emphasis on developing, implementing and administering an industrial energy management program. Prerequisite: IT 240 required. IT 263 recommended.

383 TELECOMMUNICATIONS TECHNOLOGY**3 sem. hrs.**

Interfacing computers locally and through telecommunications networks. Identification of existing standards and hardware and evaluation of specific interfacing needs. Prerequisite: ACS 155.01 or 155.02 or consent of instructor.

384 PLASTIC MOLDING PROCESSES**4 sem. hrs.**

Advanced theory and practice related to plastics molding, process control, molds and dies, and auxiliary equipment. Prerequisite: IT 285. Materials charge optional.

385 REINFORCED PLASTICS**4 sem. hrs.**

Advanced theory practical application of fiberglass, plastic, resins, other materials in hand layup, spray up, filament winding and other common industrial techniques. Prerequisite: IT 285. Materials charge optional.

387 FORMING, EXPANDING AND FABRICATING PLASTICS**4 sem. hrs.**

Advanced study of solid and cellular plastics used for product development involving thermo-forming, foam molding, assembling, machining and decorating. Prerequisites: IT 285. Materials charge optional.

388 PLASTICS PRODUCT DESIGN**4 sem. hrs.**

Designing plastic tooling, fixtures, and industrial and consumer products. Prerequisite: Eight hours from IT 285, 384, 385, or 387. Materials charge optional.

390 INDUSTRIAL COMPUTER APPLICATIONS**4 sem. hrs.**

Development of industrial computer applications using advanced principles and techniques--encoding, transmitting, receiving, storing of images/data in industrial applications. Prerequisites: IT 311, 9 hours of advanced technical courses in industrial computer systems, or consent of instructor. Materials charge optional.

392 INDUSTRIAL PRODUCTION**4 sem. hrs.**

Study of management and supervisory principles applied to product manufacturing and plant engineering using case studies, real and simulated situations. Prerequisites: IT 311 and 6 sem. hrs. of technical core courses in the Integrated Manufacturing Systems Sequence and senior standing or consent of instructor. Materials charge optional.

394 CONSTRUCTION MANAGEMENT AND ADMINISTRATION**4 sem. hrs.**

Project management and administrative techniques such as estimating, bidding, contracts, scheduling, finance, sub-contracting, and cost analysis and control. Prerequisites: IT 226, 323, and 325; and 500 hours construction experience or consent of instructor.

400 INDEPENDENT STUDY**1-4 sem. hrs.****Department recommends 3 sem. hrs.**

A maximum of six hours may be applied toward a master's degree. Intensive research study in an area of student's interest under a qualified member of the faculty. Each individual investigation is to culminate in a comprehensive written report and/or examination. Open only to graduate students who have completed considerable work in a degree program, who are in good standing, and who have demonstrated ability to profit from independent study. A written proposal approved by the faculty member, the student's adviser and the department chairperson is required prior to registration. May be repeated for a total of six hours. Prerequisites: IT 349 and IT 497.

403 SEMINAR IN INDUSTRIAL TECHNOLOGY**2 sem. hrs.**

A Seminar consists of advanced students meeting regularly under the guidance of a faculty member in which each conducts research and exchanges information, problems and results through informal lectures, reports and discussions. May be repeated for a total of six hours. Prerequisites: IT 349 and 497.

404 SPECIAL PROJECTS IN INDUSTRIAL TECHNOLOGY**1-3 sem. hrs.**

Investigation of selected areas of industrial technology which may include laboratory work. Each individual investigation is to include a project and a comprehensive written report and/or examination. A written proposal approved by the faculty member, the student's adviser and the department chairperson is required prior to registration. May be repeated for a total of six hours. Prerequisites: IT 349 and 497.

406 INSTRUCTIONAL PROGRAM DESIGN FOR INDUSTRIAL TRAINING**3 sem. hrs.**

Study and applications of the theories and methods used in the development of contemporary industrial training and industrial education curricula.

407 INSTRUCTIONAL PROGRAM DEVELOPMENT FOR INDUSTRIAL TRAINING**3 sem. hrs.**

Provides competencies required for identifying training objectives and implementing industrial training programs utilizing effective contemporary instructional and delivery methods. Prerequisite: IT 406.

408 INSTRUCTIONAL PROGRAM IMPLEMENTATION AND EVALUATION FOR INDUSTRIAL TRAINING**3 sem. hrs.**

Provides competencies required for analyzing and evaluating industrial training workshops and programs by conducting process and product evaluations. Prerequisite: IT 406.

410 FOUNDATION & DEVELOPMENT OF INDUSTRIAL TECHNOLOGY**3 sem. hrs.**

A study of technical developments, their contribution in the evolution of major technological systems, and their impact upon industry and society.

491 INTERNSHIP IN COLLEGE TEACHING IN INDUSTRIAL EDUCATION**3 sem. hrs.**

(See Curriculum and Instruction 491.)

496 COLLOQUIUM IN INDUSTRIAL TECHNOLOGY**1 sem. hr.**

An examination of major trends, issues, and policies on industrial technology through presentations by students and practitioners. Prerequisites: IT 349 and 497.

497 INTRODUCTION TO RESEARCH METHODOLOGY**3 sem. hrs.**

Selection of a research problem, collection of data, types of research, the research report and use of the library in connection with the research problem. Emphasis on understanding and interpreting frequently used statistical concepts. Provides a background for the preparation of the thesis. Prerequisites or co-requisites: three semester hours of statistics at the undergraduate or graduate level and IT 349.

498 PROFESSIONAL PRACTICE IN INDUSTRIAL TECHNOLOGY**1-8 sem. hrs.**

Refer to Index for General Courses.

499 MASTER'S THESIS**1-6 sem. hrs.**

COLLEGE OF ARTS AND SCIENCES

Dean: Paul T. Schollaert. Office: 141 Stevenson Hall

The primary purpose of the College of Arts and Sciences is to provide a broadly based educational program in the liberal arts and sciences. The College includes the Departments of Biological Sciences, Chemistry, Communication, Economics, English, Foreign Languages, Geography-Geology, History, Mathematics, Philosophy, Physics, Political Science, Psychology, Social Work, Sociology-Anthropology, and Speech Pathology-Audiology. The College offers the core of the University Studies program required of all undergraduates, a wide range of academic major and minor programs for meeting baccalaureate degree requirements, master's programs in most disciplines, and doctoral programs in Biological Sciences, English, History, Mathematics Education, and School Psychology. Course offerings span the humanities, social and behavioral sciences, mathematics, and natural sciences.

BIOLOGICAL SCIENCES (BSC)

Chairperson: Carleton J. Phillips. Office: Felmley Hall 206.

Director of Graduate Studies: Alan J. Katz. Office: Felmley Hall 206.

Graduate Faculty: R. Anderson, J. Armstrong, D. Borst, H. Brockman, L. Brown, A. Capparella, H. Cheung, J. Dole, R. Jayaswal, S. Juliano, A. Katz, G. Kidder, S. Loew, D. McCracken, M. Nadakavukaren, A. Otsuka, C. Phillips, R. Preston, M. Reith, W. Riddle, S. Sakaluk, C. Thompson, D. Weber, D. Whitman, B. Wilkinson, D. Williams.

Biology-Chemistry Joint Appointments: M. Jones, P. Morse, S. Weldon.

The Department offers work leading to the M.S. and Ph.D. degrees. University requirements for these degrees are listed elsewhere in this catalog. All applicants are required to take the General Test of the Graduate Record Examination (GRE). Other departmental requirements are available from the Director of Graduate Studies.

Master's in Biological Sciences

Master's degree students may choose one of three options: (1) research-thesis option (32 semester hours); (2) comprehensive option (32 semester hours); and (3) 39-hour option. Course work for each of the options will be determined by the Department and will include BSC 420-Seminar (2 semester hours for research-thesis and comprehensive option students; 3 semester hours for 39-hour option students). Master's degree students in the comprehensive and 39-hour options are also required to take 2 semester hours of BSC 400-Independent Study.

Conservation Biology: Students pursuing the research-thesis option may elect to pursue a sequence in Conservation Biology, a discipline linking ecology, genetics and systematics to applied problems in biodiversity preservation and ecosystem function.

Ph.D. in Biological Sciences

Students working toward the Ph.D. degree in Biological Sciences may pursue research in most of the major subdisciplines. The scholar-educator option in the Ph.D. program combines traditional training in research with formal training in university- and college-level teaching for those students planning a career in teaching and research at liberal arts colleges and comprehensive universities. Course work will include BSC 420-Seminar (4 semester hours).

Courses

300 READINGS IN BIOLOGICAL SCIENCES

1 sem. hr.

Reading and discussion of classical and modern biological literature. Prerequisite: two of BSC 201, 203, 219. Majors only or consent of instructor.

301 ENTOMOLOGY

4 sem. hrs.

Biology and taxonomy of insects. Lecture, lab, and field trips. Prerequisites: BSC 196, 197, and 201. Materials charge optional.

306 REGIONAL AND AREA STUDIES

1-9 sem. hrs.

Intensive on-site studies of organisms and their environments. Prerequisite: Consent of instructor. Field work.

307 METHODS IN THE TEACHING OF BIOLOGY

2 or 3 sem. hrs.; (see Biology teacher education adviser.)

Strategies, curricula, and materials applicable to teaching secondary school science. 35 hrs clinical experiences included, 4 hours, Type 1-6. Prerequisite: C&I 216 or equivalent, or concurrent registration. Not for graduate credit for biology students.

308 FIELD BIOLOGY

3 sem. hrs.

Ecological communities of Central Illinois. Classification and identification of plants and/or animals. Prerequisites: BSC 201 or equivalent. Lecture, lab, and field trips.

318 HISTOLOGICAL TECHNIQUES FOR ZOOLOGISTS AND BOTANISTS

2 sem. hrs.

Preparation of microscope slides, special techniques for whole mounts, plastic embedding, plastic injections, and nerve preparations. Lecture and laboratory. Materials charge optional.

321 MOLECULAR AND DEVELOPMENTAL GENETICS

4 sem. hrs.

Organization of the genome; structure of chromatin and chromosomes; genetic regulation of development; molecular bases of DNA functions. Lecture and laboratory. Prerequisites: BSC 203 and 219. Materials charge optional.

326 PLANT PHYSIOLOGY

4 sem. hrs.

Plant structure and function: photosynthesis, translocation, growth, and development. Laboratory emphasis on independent experimentation. Lecture and laboratory. Prerequisite: BSC 203. Materials charge optional.

329 HUMAN GENETICS**3 sem. hrs.**

Detection, expression, transmission, and molecular manipulation of human traits; emphasis on medical genetics. Lecture. Prerequisite: BSC 203 and 219.

334 INTRODUCTORY MYCOLOGY**4 sem. hrs.**

Morphology, taxonomy, and evolution of fungi. Lecture and laboratory. Prerequisite: BSC 201.

335 PLANT TAXONOMY**3 sem. hrs.**

Classification of flowering plants; taxonomic characters and data, patterns of diversity, and methods of classification; distinguishing characteristics of major taxa, names of major taxa, botanical nomenclature, and taxonomic reference tools. Prerequisite: BSC 222 or 223 and one of BSC 201, 203, 219.

336 LABORATORY IN PLANT IDENTIFICATION**1 sem. hrs.**

Plant identification; identification tools and methods; descriptive morphology and terminology; field identification of flowering plants and major plant families; specimen collection, documentation and curation. Prerequisite: BSC 335.

350 MOLECULAR BIOLOGY**3 sem. hrs.**

DNA structure and replication, the Genetic Code, transcription, translation, genetic regulation, RNA splicing, and transposons. Lecture. Prerequisites: BSC 203, 219 and 260; CHE 220, or 230 and 231 required. CHE 242 or 342 recommended.

352 BIOTECHNOLOGY LABORATORY: MOLECULAR RECOGNITION**5 sem. hrs.**

Biochemical, immunological, and molecular analyses of the recognition processes of biological systems; applications of sensitive and selective techniques of molecular and cellular biology. Lecture and laboratory. Prerequisites: CHE 220 or 230-232; BSC 203, 219 and 260 required. CHE 242 or 342 recommended. Materials charge optional.

361 MICROBIAL PATHOGENS**4 sem. hrs.**

Pathogenesis, identification, cultivation and classification of bacteria, viruses, fungi and animal parasites associated with diseases of man. Lecture and laboratory. Prerequisite: BSC 203 and 260. Materials charge optional.

367 IMMUNOLOGY**4 sem. hrs.**

Molecular, cellular, transplantation, and tumor immunology; antimicrobial immunity; immunochemistry. Lecture and laboratory. Prerequisites: BSC 203 and 260. Materials charge optional.

368 VIROLOGY**4 sem. hrs.**

Bacterial, avian, insect, plant and mammalian viruses and their involvement in disease and cancer. Viral diagnostics. Lecture and laboratory. Prerequisites: BSC 203 and 260. Materials charge optional.

380 HISTOLOGY**4 sem. hrs.**

Microscopic anatomy of cells, tissues, and organs of vertebrates. Lecture and laboratory. Prerequisite: BSC 203.

383 PARASITOLOGY**4 sem. hrs.**

Host-parasite relationships, life histories, and morphology of arthropod, helminth, and protozoan parasites of animals. Lecture and laboratory. Prerequisite: BSC 203 and 260. Materials charge optional.

390 EVOLUTION**3 sem. hrs.**

Origin of life, genetic code, mutation, selection, genetic drift, and speciation. Lecture. Prerequisite: BSC 201, 203 and 219, or consent of instructor.

395 BIOLOGY OF THE LOWER VERTEBRATES**4 sem. hrs.**

Fish, amphibians, and reptiles; behavior, ecology, evolution, systematics, zoogeography, reproduction, and adaptive significance of morphology. Lecture and laboratory. Prerequisite: one of BSC 201, 203, 219. Materials charge optional.

400 INDEPENDENT STUDY**1-4 sem. hrs.**

See General Course Offerings.

403 PLANT ECOLOGY**4 sem. hrs.**

Community ecology, diversity, niche metrics, ordination, gradient analysis, succession, sampling techniques, pollination biology, and allelopathy. Lecture and laboratory. Prerequisite: BSC 201.

404 POPULATION ECOLOGY**4 sem. hrs.**

Population regulation, competition, predator-prey relations, and evolution of life-history characteristics. Lecture and laboratory. Prerequisite: BSC 201.

405 COMMUNITY ECOLOGY**4 sem. hrs.**

Diversity and stability of natural communities, niche theory, resource partitioning and species packing, coevolution of plants and animals. Lecture and laboratory. Prerequisite: BSC 201.

406 CONSERVATION BIOLOGY**3 sem. hrs.**

Principles of conservation genetics, conservation ecology, and conservation systematics; ecosystem restoration; applications using case studies. Lecture. Prerequisites: BSC 201 and 219, or equivalent.

410 BIOLOGICAL SCANNING ELECTRON MICROSCOPY**2 sem. hrs.**

Electron optics, beam-specimen interaction, image characteristics, specimen preparation techniques. Lecture and laboratory. Prerequisite: Consent of instructor.

416 CELLULAR PHYSIOLOGY**5 sem. hrs.**

Molecular and biophysical bases of cellular function including cell structure, origin of life, enzymes, metabolism, energetics, membrane structure, and active transport. Lecture and laboratory. Prerequisite: Consent of instructor.

417 CYTOLOGY**4 sem. hrs.**

Recent developments and methodologies concerning ultrastructural organization of cells. Structural-functional aspects, interactions, genetic material, and origin of organelles and the nucleus. Lecture and laboratory.

418 ELECTRON MICROSCOPY**4 sem. hrs.**

Theory and application of biological specimen preparation, ultramicrotomy, photography, and electron optics. Lecture and laboratory. Prerequisite: Consent of instructor.

419 MOLECULAR BIOLOGY OF THE GENE**4 sem. hrs.**

The gene as a unit of structure, replication, function, mutation, recombination, and regulation. Lecture. Prerequisites: BSC 219 and 260, or consent of instructor.

420 GRADUATE SEMINAR IN BIOLOGY**1 sem. hr.**

Topics in various fields of biology. May be repeated for credit.

421 CYTOGENETICS**4 sem. hrs.**

Intensive consideration of meiosis and mitosis. Nature and consequences of altered chromosomal structures and numbers and their employment in genetic engineering. Lecture and laboratory. Prerequisite: BSC 219.

450 ADVANCED STUDIES IN SPECIALIZED FIELDS**1-4 sem. hrs.**

Current advances in specialized fields of the biological sciences. May be repeated for credit in different fields. Prerequisite: Consent of instructor.

463 ORIENTATION TO BIOLOGY GRADUATE STUDIES**1 sem. hr.**

Introduction to experimental design, data collection and management, grant and manuscript writing, publishing, and public speaking. Lecture. For new graduate students.

465 ADVANCED PARASITOLOGY**3 sem. hrs.**

Immunobiology and disease ecology of selected helminth and protozoan parasites in vertebrate and invertebrate hosts. Lecture and laboratory. Prerequisite: BSC 383, or consent of instructor.

466 MICROBIAL PHYSIOLOGY**3 sem. hrs.**

Molecular and cellular aspects of microorganisms: growth, metabolism and its control, membrane and cell envelope structure and function, transport, chemotaxis, antibiotic action, adaptations to extreme environments. Lecture. Prerequisites: BSC 260 and CHE 242 or 342.

467 MICROBIAL GENETICS**4 sem. hrs.**

Inheritance and variation in bacteria and their viruses; recombination, regulation, gene transfer, and other genetic phenomena. Emphasis on molecular basis of microbial genetics. Lecture. Prerequisites: BSC 260 and 219.

486 ETHOLOGY**4 sem. hrs.**

Behavior of animals under natural conditions. Lecture and laboratory. Prerequisite: BSC 199, or consent of instructor.

488 SYSTEMATIC BIOLOGY**3 sem. hrs.**

Species concepts; higher categories; evolutionary, phenetic, and cladistic classification; molecular and morphological characters; geographic variation; biogeography; nomenclature. Lecture. Prerequisite: Background in statistics or consent of instructor.

490 BIOSTATISTICS**3 sem. hrs.**

Statistical techniques encountered in biological research with emphasis on proper use and interpretation of analyses. Lecture.

491 INTERNSHIP IN COLLEGE TEACHING IN BIOLOGICAL SCIENCES**3 sem. hrs.**

Credit for the course is given in Curriculum and Instruction (see C&I 491). Prerequisite: Consent of department chairperson.

495 GRADUATE RESEARCH IN BIOLOGICAL SCIENCES**1-3 sem. hrs.**

Field and/or laboratory research in one of the biological sciences involving a participation in the scientific process with faculty and other graduate students with the purpose of conducting independent research and/or developing additional research skills and technical expertises. Prerequisite: Project proposals must be approved by a supervising faculty member, the student's graduate advisor (if in the thesis program) and chair of the graduate studies prior to reg. Students are expected to work on average a minimum of 3 hrs. per week for each hour of credit. May be repeated; max of 4 hours may be counted toward degree req.

499 MASTER'S THESIS**1-6 sem. hrs.****599 DISSERTATION RESEARCH (Ph.D.)****Variable credit****BOTANY (See Biological Sciences)****CHEMISTRY (CHE)**

Chairperson: Michael E. Kurz. Office: Felmley Hall of Science 305.

Graduate Faculty: J. Baur, R. Bunting, G. Clark, J. Hansen, J. House, M. Jones, M. Kurz, T. Lash, P. Morse, R. Reiter, O. Rothenberger, J. Standard, C. Stevenson, J. Webb, S. Weldon, M. Welsh, D. West, W. Zeller.

Master's Degree in Chemistry

The department offers a single thesis-based M.S. degree. A minimum of eight formal hours in Chemistry 490 (Research) and Chemistry 499 (Theses) are required. Students select an adviser and work closely with that faculty member to complete an original research thesis project. Upon completion of a written thesis, a final oral examination thesis defense is required.

The program is broad-based and allows students to specialize in any of the subdisciplines (physical, organic, inorganic, analytical or biochemistry), although course work is required in at least four areas. The courses required to fulfill the M.S. degree include 22 hours of 400 and/or 300 level courses including a minimum of 12 credit hours of courses at the 400 level. Two hours of credit in Seminar (Chemistry 492) are also required.

Admission Requirements

To be admitted to the master's program a student must have at least a 2.6 GPA (on a scale in which A equals 4) for the last 60 hours of undergraduate work. The Department considers GRE scores for granting assistantships. Results of the General Test of the Graduate Record Examination should be sent to the Department's Graduate Coordinator. A minimum TOEFL score of 600 is recommended for international students to be considered for admission to the program.

Courses

The following courses are not applicable to an advanced degree in chemistry: 301, 302, 360, 361, 362, 363, 398.

315 ANALYTICAL CHEMISTRY

3 sem. hrs.

Emphasis on modern instrumental methods of chemical analysis including electroanalytical, optical, and chromatographic methods. Prerequisite: CHE 362, or concurrent registration. Lecture and laboratory. Materials and locker charge optional.

342 GENERAL BIOCHEMISTRY I

3 sem. hrs.

Survey of the chemical and physical properties of amino acids, carbohydrates, lipids and nucleic acids, and structure and function of proteins, including enzyme kinetics. Prerequisite: CHE 232, or one year of organic chemistry. Not for credit if had CHE 242.

343 BIOCHEMISTRY LABORATORY

2-3 sem. hrs.

Application of biochemical principles and methods discussed in companion course, CHE 342. Prerequisite: CHE 342, or concurrent registration, or CHE 242. Lecture and laboratory. Materials and locker charge optional.

344 GENERAL BIOCHEMISTRY II

3 sem. hrs.

Survey of important aspects of intermediary metabolism, metabolic regulation, membrane transport, and bioenergetics. Topics will include hormonal controls and immunochemical response. Prerequisite: CHE 342.

350 INORGANIC CHEMISTRY

3 sem. hrs.

Survey of modern inorganic chemistry including structure of inorganic compounds, coordination chemistry, non-aqueous solvents, and selected inorganic reactions. Prerequisite: CHE 362.

380 TOPICS IN CONTEMPORARY CHEMISTRY

1-3 sem. hrs.

New concepts and recent developments in the fields of organic, inorganic, analytical, physical, and biochemistry. May be repeated.

412 TOPICS IN ANALYTICAL CHEMISTRY

1-3 sem. hrs.

Advanced study in selected areas of modern analytical chemistry. Course may be repeated for credit. Prerequisite: CHE 315.

414 CHEMICAL SEPARATIONS

3 sem. hrs.

A study of the fundamental and practical aspects of separation methods including solvent extraction, chromatography, exclusion processes, and mass spectrometry. Prerequisite: CHE 315 or equivalent.

422 MECHANISMS IN ORGANIC CHEMISTRY

3 sem. hrs.

A critical examination of nucleophilic, electrophilic, and free radical reaction mechanisms including the study of the stability and reactivity of carbanions, carbocations and carbenes. Prerequisites: CHE 232 and credit or registration in 360.

424 TOPICS IN ORGANIC CHEMISTRY

1-3 sem. hrs.

Lectures in selected topics of modern organic chemistry. Course may be repeated for credit. Prerequisite: CHE 232 or equivalent.

426 ORGANIC SYNTHESIS

3 sem. hrs.

Survey of stereoselective carbon-carbon single and double bond formation, functional group interconversion, multi-step synthetic strategies and an introduction into enantioselective reactions. Prerequisite: CHE 232 or equivalent.

428 HETEROCYCLES

3 sem. hrs.

Advanced study of the major classes of heterocyclic compounds; includes detailed discussion of aromaticity, conformational analysis, ring synthesis, reactions and nomenclature.

440 TOPICS IN BIOCHEMISTRY

1-3 sem. hrs.

Advanced study in selected areas of biochemistry. May be repeated for credit in consecutive semesters as different topics are introduced. Prerequisite: One year of biochemistry.

442 PROTEINS

3 sem. hrs.

Chemical forces governing overall protein structure as related to biological function. Methods of protein purification and structural analysis are examined. Prerequisites: CHE 242 or 342 or equivalent.

444 LIPIDS

3 sem. hrs.

A survey of lipids: structures, functions, intermediary metabolism, metabolic regulation, and techniques used to isolate, characterize and quantitate lipids. Prerequisites: CHE 342 or 242 required. CHE 344 recommended.

450 ADVANCED INORGANIC CHEMISTRY

3 sem. hrs.

Interpretation of contemporary theories and their application to selected areas of molecular structure and reaction dynamics in inorganic systems. Prerequisite: CHE 350.

454 TOPICS IN INORGANIC CHEMISTRY

1-3 sem. hrs.

Advanced study in selected areas of modern inorganic chemistry. Course may be repeated for credit. Prerequisite: CHE 350.

456 COORDINATION CHEMISTRY

2-3 sem. hrs.

Coordination chemistry is the study of metal complexes; their preparation, physical and spectral characterization, kinetics and mechanisms of reactions, and stability.

460 QUANTUM CHEMISTRY

3 sem. hrs.

An introduction to the methods of obtaining exact and approximate solutions to the Schrodinger equation, and the use of these solutions in the description of atomic and molecular systems. Prerequisites: CHE 362 and MAT 175. MAT 340 is also recommended.

462 INTRODUCTION TO STATISTICAL THERMODYNAMICS

3 sem. hrs.

An introduction to the methods and theorems of statistical mechanics, its relationship to chemical thermodynamics, and application to molecular models of chemical interest. Prerequisite: CHE 362.

464 KINETICS

2 sem. hrs.

Reviews the kinetics introduction of CHE 360 with an amplification and extension of basic concepts. Presents theory and techniques for understanding kinetic phenomena in gases and condensed media.

466 TOPICS IN PHYSICAL CHEMISTRY**1-3 sem. hrs.**

Advanced study in selected areas of modern physical chemistry. Course may be repeated for credit. Prerequisite: CHE 362.

490 RESEARCH IN CHEMISTRY**Variable credit**

Research involving the gathering of data to form the basis for the thesis. Open only to advanced graduate students. The course can be repeated for credit. Approval of the chairperson of the department is required.

492 SEMINAR IN CHEMISTRY**1 sem. hr.**

Survey of current work in chemistry both in pure research and in the application of newer theories of chemistry to the teaching of chemistry at the secondary and college levels. May be repeated for a total of two semester hours.

498 PROFESSIONAL PRACTICE IN CHEMISTRY**1-12 sem. hrs.**

Provides graduate students with the opportunity to obtain supervised work experience in chemistry. Available as 498.50 Co-op in Chemistry. Practical experience by employment in an industrial or government laboratory. Graduate students must have completed at least one semester of graduate courses (minimum GPA of 3.0) before the first off-campus assignment is made. No more than 2 credit hours of 498.50 can be counted towards the 22 hour coursework requirement for the degree and no credit can be awarded toward the 12 hour 400-level course requirement for the degree.

499 MASTER'S THESIS**1-6 sem. hrs.****COMMUNICATION (COM)**

Chairperson: Catherine Konsky. Office: Fell 434.

Graduate Faculty: D. Allen, J. Baldwin, R. Chandler, M. Comadena, W. Coombs, J. Cragan, B. Cupach, C. Cutbirth, M. Haefner, C. Hoffner, S. Holladay, J. Kang, S. Kapoor, D. Kazoleas, C. Konsky, S. Metts, M. Moffitt, W. Sendlak, F. Wisely, A. Wolfe, D. Wright.

The department offers work leading to the M.A. and M.S. degrees in Communication.

Admission Requirements

To be considered for admission to the master's degree program in Communication, an applicant must have a minimum GPA of 3.0 for the last 60 hours of course work completed, OR have a combined Verbal and Quantitative score on the Graduate Record Examination (GRE) of at least 1,000. International students are additionally required to obtain a minimum TOEFL score of 600 to be considered for admission to the Master's degree program in Communication.

Program Requirements

The Communication degree requires a minimum of 32 credit hours, including completion of either a thesis or comprehensive exams. Two courses are required: COM 422, Proseminar in Communication and COM 497, Introduction to Research Methodology. The remaining courses are selected by the student and adviser. Areas of interest include, but are not limited to: applied communication, communication education, communication theory and mass communication. All programs can include a graduate internship.

Courses**302 COMMUNICATION CRITICISM****3 sem. hrs.**

The course develops critical skills for describing, interpreting, and evaluating communication from different theoretical perspectives.

303 CONTROVERSY AND CONTEMPORARY SOCIETY**3 sem. hrs.**

Contemporary communication on current, significant, controversial issues.

304 FREEDOM OF SPEECH AND PRESS**3 sem. hrs.**

A study of First Amendment rights. Emphasis on Supreme Court decisions relating to political dissent, obscenity, provocation and demonstration, and press freedom.

319 COMPUTER GRAPHICS**3 sem. hrs.**

Combination of graphic techniques and computer programming as means of industrial communication applied to solution and interpretation of technological problems. Also offered as IT 319.

321 MESSAGE COMPOSITION**3 sem. hrs.**

Application of speech communication theory and research to the composition of ethical informative and persuasive messages in a campaign. Emphasis: organizational and language factors affecting mediated and non-mediated communication. Prerequisite: COM 111.

323 THEORY AND RESEARCH IN SMALL GROUP COMMUNICATION**3 sem. hrs.**

Theoretical and experimental literature dealing with small group communication processes. Prerequisite: COM 110, 297 recommended.

324 THEORY AND RESEARCH IN PERSUASION**3 sem. hrs.**

A survey of contemporary theoretical and empirical literature dealing with the question of how an individual's attitudes, beliefs, and social behaviors are affected by communication. Prerequisite: COM 110, 297 recommended.

325 THEORY AND RESEARCH IN INTERPERSONAL COMMUNICATION**3 sem. hrs.**

Analysis of interpersonal communication research and its implications for developing, maintaining, and terminating relationships. Focus on developing communicative competence. Prerequisite: COM 110, 297 recommended.

329 ORGANIZATIONAL COMMUNICATION**3 sem. hrs.**

An examination of theoretical and experimental literature dealing with communication in an organizational setting. Prerequisite: COM 110 or consent of instructor.

331 HUMAN COMMUNICATION AND THE AGING PROCESS**3 sem. hrs.**

An examination of the particular communication needs of the aging and current research in the field.

355 INTERNATIONAL PUBLIC RELATIONS**3 sem. hrs.**

Theory and research related to the practice of public relations across cultural and national boundaries. Application of theory to practical problems. Prerequisites: COM 110, 178 or consent of instructor.

**360 MASS COMMUNICATION:
THEORY AND EFFECTS**
3 sem. hrs.

A critical examination of channel and receiver variables and their effects on the act of moving information through a given medium. Students participate in at least one research project of their design. Prerequisite: COM 260.

**361 REGULATION OF THE
COMMUNICATION INDUSTRY**
3 sem. hrs.

The legal background of mass media, specific laws affecting media operations and industry efforts at self regulation. Prerequisite: COM 160.

362 NON-BROADCAST TELEVISION
3 sem. hrs.

Television as a means of instruction in terms of research, technique, utilization, and evaluation. Lecture and laboratory.

363 PRIVACY AND INFORMATION PROCESSING
3 sem. hrs.

An examination of concepts about individual privacy as related to the processing of information in a technological society. The study of institutional procedures with regard to the dissemination of sensitive information.

364 BROADCAST MANAGEMENT
3 sem. hrs.

The role and functions of broadcast media managers in society. Prerequisites: COM 160, 264.

365 GRAPHIC COMMUNICATION I
3 sem. hrs.

Fundamental skills and techniques for mounting, lettering, coloring, illustrating, and reproducing graphic materials. Prerequisite: COM 240, or consent of instructor. Lecture and laboratory. Materials charge optional. Clinical hours available.

366 GRAPHIC COMMUNICATION II
3 sem. hrs.

Design and practice in the application of skills and knowledge to specific production problems. Student must integrate skills, knowledge of materials, design, and communication theory. Prerequisite: COM 365, or consent of instructor. Lecture and laboratory. Materials charge optional.

**367 ETHICAL PROBLEMS IN
MASS COMMUNICATION**
3 sem. hrs.

Analysis of ethical problems in news, entertainment, and persuasive media. Students develop analytical skills using cases and research projects. Prerequisites: COM 160 and PHI 138 or consent of instructor.

**369 INTERNATIONAL COMMUNICATION
SYSTEMS**
3 sem. hrs.

Examination of mass communication systems employed in foreign countries, their role in national, social and cultural development.

370 PSYCHOLOGY OF LANGUAGE
3 sem. hrs.

Theories and experimental research relating to the development and functions of language. Prerequisite: COM 110, 297 recommended, or consent of instructor.

371 POLITICAL COMMUNICATION
3-4 sem. hrs.

Basic theory and research relating to political campaign communication. Special attention is paid to the persuasive process of political campaigning focusing upon the role of the media, the candidate, image creation, and other selected topics on political campaign communication. Prerequisite: 6 hrs. COM or 6 hrs. POS, or consent of instructor.

372 INTERCULTURAL COMMUNICATION
3 sem. hrs.

Theories and research relating to face-to-face communication among people from different cultural, national, ethnic, or racial backgrounds. Prerequisites: COM 110, 297 recommended.

**381 PROBLEMS IN THE TEACHING
OF COMMUNICATION**
3 sem. hrs.

Identification of common and unique problems in teaching communication concepts and skills. Approaches to resolving classroom problems. Clinical hours available.

385 EDITORIAL AND FEATURE WRITING
3 sem. hrs.

Advanced training in writing feature articles and editorials for newspapers and magazines.

392 TOPICS IN COMMUNICATION INSTRUCTION
1 sem. hr.

Identification and development of new instructional content, approaches, strategies, and materials for selected oral communication concepts in educational and business classrooms. Seven topics; each may be taken once; maximum 3 credits toward degree. See Undergraduate Catalog for complete listing of topics.

422 PROSEMINAR IN COMMUNICATION
3 sem. hrs.

Introduction to theory, empirical research, and methods in communication. Includes units on the process of communication and a survey of theory and research in the following areas: language, nonverbal, interpersonal, small group, rhetorical theory, persuasion, and mass communication. Must be taken by first year graduate students who have not had equivalent course.

424 SEMINAR IN PERSUASION
3 sem. hrs.

The examination of selected areas of theory and research in persuasion. Prerequisite: COM 324, or consent of instructor.

425 SEMINAR IN NONVERBAL COMMUNICATION
3 sem. hrs.

Advanced study of the elements and functions of nonverbal communication in human interaction. May be repeated if different material is covered. Prerequisite: COM 225 or its equivalent recommended.

**433 ADMINISTRATION OF COMMUNICATION
ORGANIZATIONS**
3 sem. hrs.

Principles and practices of organizing and managing communication programs in school systems, colleges, business, and industry. Considers services, facilities, budgeting, personnel, public relations, and evaluation.

434 RESEARCH IN INSTRUCTIONAL MEDIA**3 sem. hrs.**

Critical analysis of selected research studies in institutional communications and technology. Research methods and sources of data in major categories of media research.

435 DESIGNING INSTRUCTIONAL SYSTEMS**3 sem. hrs.**

Involves identification of instructional problems; analysis of resources and alternatives; and design of effective solutions with emphasis on communication programs for training and development.

436 MESSAGE DESIGN**3 sem. hrs.**

Planning and designing mediated messages. Concepts developed are applied to the production and evaluation of a selected design problem.

460 SEMINAR IN MASS COMMUNICATION**3 sem. hrs.**

May be repeated for a total of six semester hours if different material is covered. Prerequisite: COM 360, or consent of instructor.

478 SEMINAR IN PUBLIC RELATIONS RESEARCH: CASE STUDIES**3 sem. hrs.**

Application of communication theory to the analysis of public relations problems through the use of student-conducted case studies. Prerequisites: 27 hours completed in Professional Public Relations Sequence, including COM 422, 492, and 497.

481 SEMINAR IN COMMUNICATION EDUCATION**3 sem. hrs.**

Examination of recent developments in theory and research in communication education.

485 SEMINAR IN APPLIED COMMUNICATION**3 sem. hrs.**

Application of communication theories to practical organizational or social problems. May be repeated if different material is covered. Prerequisites: COM 422 and 497 or consent of instructor.

491 INTERNSHIP IN COLLEGE TEACHING IN COMMUNICATION**3 sem. hrs.**

Credit for the course is given in C&I. (See C&I 491.)

492 SEMINAR IN COMMUNICATION THEORY**3 sem. hrs.**

Advanced examination of selected areas of communication theory. Prerequisite: Consent of instructor.

494 SEMINAR IN SMALL GROUP COMMUNICATION**3 sem. hrs.**

May be repeated for a total of six semester hours if different material is covered. Prerequisite: COM 323, or consent of instructor.

495 SEMINAR IN ORGANIZATIONAL COMMUNICATION**3 sem. hrs.**

May be repeated for a total of six semester hours if different material is covered. Prerequisite: COM 329, or consent of instructor.

496 SEMINAR IN RHETORICAL THEORY**3 sem. hrs.**

May be repeated for a total of six semester hours if different material is covered.

497 INTRODUCTION TO RESEARCH METHODOLOGY**3 sem. hrs.**

Introduction to methods of scholarly research and the critical evaluation of research in communication. Must be taken by first year graduate students. May be repeated for a total of six semester hours by advanced students as they pursue special research problems.

498 PROFESSIONAL PRACTICE IN COMMUNICATION**9 hrs. maximum.**

Refer to Index for General Courses.

499 MASTER'S THESIS**1-6 sem. hrs.**

ECONOMICS (ECO)

Chairperson: David D. Ramsey. Office: Stevenson 425.

Graduate Program Director: Michael A. Nelson. Office: Stevenson Hall 423-A.

Graduate Faculty: J. Carlson, J. Chizmar, D. Cobb-Clark, R. Cohn, A. Dillingham, R. Goel, N. Hasan, L. Hiebert, H. Mohammadi, M. Nelson, A. Ostrosky, V. Owen, R. Ram, D. Ramsey, D. Rich, R. Singh, N. Skaggs, M. Walbert.

The Department of Economics offers work leading to the M.A. or M.S. degree in applied economics. All students must complete five core courses: ECO 331, 438, 440, 441, and ENG 349. Three program options are available:

Thirty-nine hour capstone option: Students select a concentration in an applied economics field, including business economics, public policy, monetary economics/finance, community development, and human resources. Not all concentrations will be offered each year. (See the Graduate Program Director for schedule.) The thirty-nine hours of credit must include the core courses (16 hours); a 2-hour capstone project (ECO 495) taken in conjunction with any of the following 3-hour courses: ECO 405, 415, 416, 425, 435, 445, or 450; and at least 18 hours of other general electives, of which, six hours must be taken outside Economics and selected with the advice and consent of the Graduate Program Director. For the 39-hour capstone option, 18 hours of 400-level course work are required inclusive of the 2 hours of ECO 495.

Thirty-three hour thesis option: This option is appropriate for students whose interests lie outside one of the applied fields noted above and for those who intend to pursue doctoral-level studies in economics or a related discipline. The thirty-three hours of credit must include the core courses (16 hours); 11 or more hours of general electives, at least 6 hours of which must be at the 400-level; and at least 4 hours of ECO 499. Elective courses outside the Department may be taken with the consent of the Graduate Program Director.

Electricity, Natural Gas, and Telecommunications Economics Sequence: This sequence emphasizes the application of economic analysis to the telecommunications, electric, and natural gas industries. The thirty-nine hours of credit must include the core courses (16 hours); three courses (9 hours) in regulatory economics, including ECO 335 and 435 and one three hour version of ECO 436.01, 436.02 or 436.03;

an internship, ECO 498.02 (3 hours); and 11 hours of general electives. At least 3 hours of general elective credit must be at the 400-level and 6 hours must be outside Economics, selected in consultation with the Graduate Program Director. The three-hour version of ECO 436 requires the successful completion of a major research project.

Admission Requirements

Program applicants must submit Graduate Record Examination scores. In normal circumstances and without additional information to indicate potential success in the program, a minimum acceptable score is 950 (combined verbal and quantitative). Admission to the program without course deficiencies requires that the student has successfully completed principles of economics, a basic course in calculus and in statistics, and courses in intermediate microeconomic and macroeconomic theory. For students with a strong undergraduate quantitative background, the course requirements in intermediate theory may be waived by the department. An applicant must have earned at least a 3.0 GPA on a 4.0 scale in the last four of the six required courses.

Courses

320 INDUSTRIAL ORGANIZATION

3 sem. hrs.

Theoretical and empirical analysis of basic influences on industrial markets and performances. Market practices, the role of competition, and related policy issues. Prerequisite: One 200-level ECO course.

326 ECONOMICS OF HUMAN RESOURCES

3 sem. hrs.

Theoretical and empirical analysis of labor markets. Education and training, labor mobility, wage structure, discrimination, unemployment, wage and income policies. Prerequisite: ECO 225 or 240.

327 COLLECTIVE BARGAINING AND INDUSTRIAL RELATIONS

3 sem. hrs.

Economic analysis of U.S. industrial relations systems, determinants of its structure, collective bargaining environment and outcomes, trade union structure, administration, growth and power. Prerequisite: ECO 225 or 240.

329 ECONOMIC ISSUES IN EDUCATION

3 sem. hrs.

Analysis of economic issues in education including efficiency and equity, public vs. private provision of educational services, and education as human capital. Prerequisite: ECO 225 or 240.

330 MATHEMATICAL ECONOMICS

3 sem. hrs.

Integral calculus, difference equations, differential equations, and linear algebra in relation to economic theory. Prerequisites: ECO 101, 102; ECO 130 or MAT 121 or 145.

331 INTERMEDIATE ECONOMIC STATISTICS

3 sem. hrs.

Intermediate level probability and sampling theory. Hypothesis testing. Estimation. Basic econometric principles. Use of common regression packages such as SPSS. Prerequisites: ECO 101, 102, 131; ECO 130 or MAT 121 or MAT 145.

335 ECONOMICS OF REGULATION

3 sem. hrs.

The origins, aims, methods and effects of economic regulation with emphasis on public utilities and antitrust regulation. Prerequisite: ECO 240.

345 INTERNATIONAL TRADE

3 sem. hrs.

Study of the causes and consequences of international trade. Analysis of tariffs, quotas, other trade restrictions, current trade policy and multinational corporations. Prerequisite: ECO 240 or 245.

346 INTERNATIONAL MONETARY THEORY

3 sem. hrs.

Analysis of mechanisms of international payments and evaluation of the international monetary system. Topics include exchange rates, balance of payments, international monetary cooperation, and connections between the domestic and international economy. Prerequisite: ECO 241 or 245.

350 PUBLIC FINANCE

3 sem. hrs.

Analysis of the economic impacts of government expenditures and taxes on the allocation of resources and the distribution of income. Prerequisite: One 200-level ECO course.

351 STATE AND LOCAL FINANCE

3 sem. hrs.

Economic impacts of state and local government expenditures and taxes, cost benefit analysis, and intergovernmental fiscal relations. Prerequisite: One 200-level ECO course.

353 THE ANALYSIS OF TIME SERIES

4 sem. hrs.

Theory and application of regression and time series methods with reference to business and economic time series. Topics include regression, exponential smoothing, and Box-Jenkins methods. A computer statistical package will be used. Prerequisites: ECO 331, or MAT 350, or consent of instructor. Also offered as MAT 353.

355 ENVIRONMENTAL ECONOMICS

3 sem. hrs.

Theoretical and empirical analysis of environmental pollution generation and of corrective policies. Emphasis upon the resource allocation implications of public policy decisions. Prerequisite: One 200-level ECO course.

360 DEVELOPMENT OF THE AMERICAN ECONOMY

3 sem. hrs.

Recent empirical studies and applications of economic theory to historical problems in an American context. Causes of the Great Depression, economics of slavery, and roles of agriculture, industry, and government in growth. Prerequisite: Two 200-level ECO courses.

372 HISTORY OF ECONOMIC THOUGHT

3 sem. hrs.

A study of economic analysis from the Mercantilists to the American Institutionalists. Relates earlier schools of thought to the contemporary. Prerequisite: Two 200-level ECO courses.

401 SURVEY OF ECONOMIC PRINCIPLES

3 sem. hrs.

Compresses into a single semester matters ordinarily covered in two semesters of Economic Principles. Enrollment is limited to graduate students who have had no more than one semester of previous study in economics. Cannot be presented for graduate credit by a degree candidate in Economics or in the MBA program.

404 ECONOMIC ANALYSIS FOR BUSINESS DECISIONS

3 sem. hrs.

Microeconomic theory and its application to the analysis of business decision-making. Prerequisites: ECO 101, 131 or MQM 100 or equivalent. Not for credit by Economics majors.

405 THEORIES OF ECONOMIC DEVELOPMENT**3 sem. hrs.**

Consideration of economic development theories and their implications for development policy to further economic growth. Prerequisite: ECO 205.

415 MONETARY ECONOMICS**3 sem. hrs.**

The role of money in economic activity; the precise nature of the demand and supply conditions; the policy implications of theoretical conclusions with regard to money. Prerequisite: ECO 241.

416 STABILIZATION THEORY AND POLICY**3 sem. hrs.**

Theory of economic policy, impacts of monetary and fiscal policies on employment and price levels, interest rates, growth, and balance of payments, implementation and coordination problems of monetary and fiscal policies. Prerequisite: ECO 241.

425 ADVANCED LABOR ECONOMICS**3 sem. hrs.**

Advanced theoretical and empirical analysis of labor demand, labor force participation, and determinants of earnings. Emphasis on contemporary econometric practice. Prerequisites: ECO 438 and 440.

435 REGULATION OF PUBLIC UTILITIES**3 sem. hrs.**

Regulation of a natural monopoly. First- and second-best linear and non-linear prices. Rate of return regulation and incentive regulation. Prerequisites: ECO 335 and 440.

436 SEMINAR IN REGULATORY ECONOMICS**2-3 sem. hrs.**

Analysis of regulatory policy in the electric utility, natural gas, or telecommunications industry. Available as 436.01 Seminar in Regulatory Economics: Electric Utility Industry, 436.02 Seminar in Regulatory Economics: Natural Gas Industry, 436.03 Seminar in Regulatory Economics: Telecommunications Industry. Prerequisite: ECO 435. None of the individual seminars may be repeated for credit.

438 ECONOMETRICS I**3 sem. hrs.**

Study of the linear regression model, properties of estimators, simultaneous equations, and specification and identification in economic theory and economic problems. Prerequisite: ECO 331 or MAT 350, or consent of instructor.

439 ECONOMETRICS II**3 sem. hrs.**

Advanced topics in econometrics, including modeling, simultaneous equations, Monte Carlo methods, spectral analysis. Fall only. Prerequisite: ECO 438.

440 ADVANCED MICROECONOMIC THEORY I**4 sem. hrs.**

Optimization techniques, theory of consumer choice, theory of the firm, market equilibrium, and welfare economics. Prerequisites: ECO 240 and work in calculus.

441 ADVANCED MACROECONOMIC THEORY I**3 sem. hrs.**

National income analysis with emphasis on the contemporary theories of consumption, investment and interest, also consideration of the level, growth, and fluctuations of national income. Prerequisites: ECO 241 and work in calculus.

445 INTERNATIONAL ECONOMIC ANALYSIS**3 sem. hrs.**

Pure theory of trade, and international finance, growth and trade, balance of payments adjustment, and the theory of exchange rate determination are considered. Prerequisite: ECO 345.

450 ADVANCED PUBLIC FINANCE**3 sem. hrs.**

Analysis of economic impacts of government expenditures and taxes on the allocation of resources and the distribution of income. Prerequisite: ECO 240. ECO 331 recommended.

490 SEMINAR IN ECONOMICS**1-4 sem. hrs.**

May be repeated for credit if different topics. Available as 490.04 Seminar in Community Development. Prerequisite: Consent of department chairperson.

491 INTERNSHIP IN COLLEGE TEACHING IN ECONOMICS**3 sem. hrs.**

Credit for the course is given in Curriculum and Instruction (see C&I 491).

492 GRADUATE READINGS IN ECONOMICS**1-3 sem. hrs.**

For the graduate student who would benefit from a more specialized independent type of study adapted to his/her background and needs. Prerequisite: Consent of department chairperson and instructor.

495 GRADUATE RESEARCH IN APPLIED ECONOMICS**2 sem. hrs.**

Taken concurrently with any of the following: ECO 405, 415, 416, 425, 435, 445, 450, or 490.04. Involves independent out-of-class work on a project designed in consultation with the instructor in the concurrent 400-level course. Prerequisites: ECO 331, 438, 440, and 441.

498 PROFESSIONAL PRACTICE IN ECONOMICS**1-3 sem. hrs.**

Practical experience in a professional capacity under the mentorship of a faculty member. Available as 498.01 Professional Practice: Co-op/Internship in Economics or 498.02 Professional Practice: Co-op/Internship in Regulatory Economics. Prerequisites: ECO 331, 438, 440 and 441 and a 3.0 or better GPA. A maximum of three hours may be submitted toward graduation. Will not count toward the 400-level hour requirement.

499 MASTER'S THESIS**1-6 sem. hrs.****599 RESEARCH IN ECONOMICS****Variable credit**

Research involving the gathering of data to form the basis of the dissertation required for the Doctor of Arts.

ENGLISH (ENG)

Chairperson: Ronald Fortune. Office: Stevenson Hall 409-D.

Director of Graduate Studies: William C. Woodson. Office: Stevenson Hall 409-B.

Graduate Faculty: L. Brasseur, R. Broad, I. Brosnahan, L. Brosnahan, R. Carr, R. Dammers, J. Elledge, R. Fortune, L. Getsi, C. Giscombe, H. Graves, D. Harrington, C. Harris, V. Harris, B. Hawkins, D. Hesse, C. Huff, S. Kagle, J. Kalmbach, W. McBride, W. Morgan, J. Neuleib, J. O'Brien, S. Renner, R. Rutter, R. Saunders, G. Savage, M. Scharton, J. Shields, M. Steffensen, R. Strickland, J. Susina, R. Tarr, T. Thompson, R. Trites, J. Visor, D. Wallace, C. White, R. White, W. Woodson.

The Department of English offers programs of graduate work leading to the Master of Arts, Master of Science, and the Doctor of Arts. A master's degree program is offered both in English and in Writing. University requirements for these degrees are listed elsewhere in this catalog. Departmental requirements are as follows.

Admission Requirements

Admission requirements for the Masters programs in English are as follows. All applicants will have achieved a minimum 3.0 GPA as undergraduates; or, will have achieved more than a 3.0 during their last 45 hours; or, will have achieved a 3.0 as students-at-large in graduate courses. Applicants will submit the scores from the General Test of the GRE, transcripts from all colleges and universities attended, the application form, and any supporting materials. Applications are considered three times a year, in October, February, and May.

Master's Degree in English

The Department offers a master's degree in English, with emphases by advising in Creative Writing, Children's Literature, and Traditional Literature; special studies in cognate areas allow other emphases for practicing teachers. This degree requires eleven courses; the thesis is optional.

Master's Degree in Writing

The master's degree in writing offers sequences in the Teaching of Writing and in Professional Writing. Each sequence includes eighteen hours of required courses, nine hours of courses that are specific to the emphases, and three hours of electives. An internship or practicum, comprehensive examinations, and a thesis are required.

Teaching of Writing Sequence

In this sequence, courses will be selected with the assistance of an adviser to provide an emphasis in community college teaching, Teaching English as a Second Language, or secondary teaching.

Professional Writing Sequence

In this sequence, courses will be selected with the assistance of an adviser to provide an emphasis in technical writing, general writing or creative writing.

Required core courses (18 hours): ENG 401, 402, 341, and three literature courses.

9 hours selected from at least two of the following groups: Rhetorical Studies (3-6 hours): ENG 391, 392, 483. Professional Writing (3-6 hours): ENG 347, 348, 349, 350, 351, 447, 449, 451. Language (3-6 hours): ENG 310, 440. Teaching (3-6 hours): ENG 343, 344, 345, 346, 395, 445, 452, 495.

3 hours of electives may be selected from courses not used to meet distribution requirements or from other appropriate courses.

Internship, portfolio, or Practicum (3 hours): ENG 396, 394, or 498.

Thesis (4 hours): ENG 499.

Doctor of Arts

The Doctor of Arts in English is designed for those who have a demonstrated career commitment to teaching, especially in two and four year colleges. Its purpose is to provide integrating theories for undergraduate instruction in composition, language, and literature. The program requires ENG 510, 540, 560, 590, and 591; English electives, 9-12 hours (6 in literature courses); Higher Education, 1-6 hours; cognate field, 12 hours; a comprehensive examination; and a dissertation on the teaching of language, literature, or composition.

A full-time student should normally complete course work in two calendar years, a part-time student, in four years. A Doctor of Arts student, after completing work for a master's degree or its equivalent, must successfully complete at least two terms of full-time residency. A term may be a semester or a summer session of at least eight weeks. Full-time for residency is defined as at least 9 semester hours of course work during a semester or six semester hours during a summer session.

Admission to the program requires a master's degree and, ordinarily, prior teaching experience. For additional information write the Director of Graduate Studies, Department of English, Illinois State University.

Courses

When content differs the courses may be repeated with the approval of the Director of Graduate Studies and the Dean of the Graduate School.

308 LITERATURE AND THE RELATED ARTS 3 sem. hrs.

Study of formal, aesthetic, and cultural relationships among literature, art, and music with special emphasis upon literary understanding.

310 HISTORY AND DEVELOPMENT OF THE ENGLISH LANGUAGE 3 sem. hrs.

Development of the English language from the Old English period to the present, with attention to operational structures of contemporary English.

311 INTRODUCTION TO OLD ENGLISH LANGUAGE AND LITERATURE 3 sem. hrs.

The elements of Old English grammar, with selected readings in Old English literature.

320 CHAUCER 3 sem. hrs.

Literary and linguistic study of the major works of Chaucer; text in Middle English.

324 MILTON 3 sem. hrs.

Major poetry and prose of John Milton; special attention to Paradise Lost.

325 ENGLISH DRAMA BEFORE 1642 3 sem. hrs.

English drama, excluding Shakespeare, from its beginning to the closing of the theaters; authors such as Marlowe, Jonson, Webster.

327 RESTORATION AND EIGHTEENTH-CENTURY DRAMA

3 sem. hrs.

English drama from 1660 to 1800, including playwrights such as Dryden, Wycherley, Congreve, Goldsmith, Sheridan.

328 MODERN BRITISH AND AMERICAN DRAMA

3 sem. hrs.

Twentieth century British and American drama and related criticisms; playwrights such as Shaw, O'Neill, Williams, Albee, Pinter, Beckett.

332 SELECTED FIGURES IN AMERICAN LITERATURE

3 sem. hrs.

Study of important literary figures, genres, or movements. May be repeated if content different.

336 THE AMERICAN NOVEL

3 sem. hrs.

Historical survey of major American novelists, including authors such as Twain, Hawthorne, Melville, Crane, Hemingway, Faulkner, and Barth.

341 INTRODUCTION TO DESCRIPTIVE LINGUISTICS

3 sem. hrs.

Aims and methods of linguistic science. Nature and functions of language: phonology, morphology, syntax, dialectology. Relationship of language to culture.

343 CROSS-CULTURAL ASPECTS IN TESOL

3 sem. hrs.

The relationship between language, culture, and cultural awareness in the learning and teaching of English as a Second Language.

344 TESOL: THEORETICAL FOUNDATIONS

3 sem. hrs.

Linguistic theories, first and second language acquisition, cognitive, affective, and cultural factors in teaching English as a Second Language. Prerequisite: ENG 243 or 341.

345 TESOL METHODS AND MATERIALS

3 sem. hrs.

Methodologies and techniques for teaching English as a Second Language; evaluation of materials for various levels and instructional goals. Prerequisite: ENG 344; includes clinical experience.

346 ASSESSMENT AND TESTING IN ESL

3 sem. hrs.

Study of issues and methods of assessing oral and written proficiency in English as a Second Language. Prerequisite: ENG 341.

347 ADVANCED CREATIVE WRITING

3 sem. hrs.

Workshop format for individual projects. Available as 347.01 Advanced Creative Writing: Poetry; 347.02 Advanced Creative Writing: Prose. May be repeated once if content different. Prerequisite: ENG 247 or graduate standing.

348 PLAYWRITING

3 sem. hrs.

Playwriting techniques of selected masters with practical application of techniques in writing original plays. Also offered as THE 348.

349 TECHNICAL WRITING II

3 sem. hrs.

Instruction and practice in editing, proposals, and analytical writing; attention given to style manuals, research-writing, and (as needed) publication. Prerequisite: ENG 249 or graduate standing. Also offered as IT 349.

350 VISIBLE RHETORIC

3 sem. hrs.

Study of the visible elements of rhetoric and of publishing as an integrating activity in English. Computer assisted. Prerequisite: ENG 349 or consent of instructor.

351 HYPERTEXT

3 sem. hrs.

Writing workshop emphasizing the creation of electronic, screen-bound documents. Includes study of interactive literature, on-line documentation, hypermedia, and electronic publishing. Prerequisites: ENG 246 or 249, or graduate status or consent of instructor. Computer assisted.

352 SELECTED FIGURES IN WORLD LITERATURE

3 sem. hrs.

Involves the study of important literary figures, types, themes, or movements. May be repeated if content different.

360 STUDIES IN WOMEN AND LITERATURE

3 sem. hrs.

Studies in literature by or about women, focusing on stereotyping of male/female experience and developing feminist aesthetic theories.

370 STUDIES IN THE HISTORY OF LITERATURE FOR YOUNG PEOPLE

3 sem. hrs.

Advanced critical, chronological examination of literature for children and adolescents from folklore origins to 1900. Prerequisite: ENG 170.

372 STUDIES IN CONTEMPORARY LITERATURE FOR YOUNG PEOPLE

3 sem. hrs.

A problem-centered course, emphasizing trends and research related to recent literature for children and early adolescents. Prerequisite: ENG 170 or consent of instructor.

373 VERSE FOR CHILDREN

3 sem. hrs.

Verse for children and early adolescents, including various categories, elements, and well-known poets in the field. Prerequisites: ENG 170 and 271, or 272 recommended.

374 STORYTELLING

3 sem. hrs.

The art of storytelling based on knowledge of folklore heritage with experiences in oral transmission of literature in a variety of settings.

375 STUDIES IN LITERATURE FOR ADOLESCENTS

3 sem. hrs.

Advanced critical examination of literature for young adults with emphasis on trends and research. May be repeated if content different.

378 SHAKESPEARE ON STAGE

3 sem. hrs.

An intensive study of Shakespeare's plays in production. For the student with adequate familiarity with Shakespeare and his work. May be repeated once. Cross listed THE 378.

381 STUDIES IN LITERARY GENRES

3 sem. hrs.

Systematic study of the theory and practice of a literary type or genre. May be repeated if content different. Prerequisites: ENG 102 and 103, or consent of instructor.

382 LITERARY CRITICISM**3 sem. hrs.**

Historical survey of selected great texts in literary and critical theory from Plato to the present.

384 INTRODUCTION TO CULTURAL THEORY**3 sem. hrs.**

Introduction to the history and practice of interpretive cultural theory.

386 THE EIGHTEENTH-CENTURY ENGLISH NOVEL**3 sem. hrs.**

The English novel from its origins through the eighteenth-century, including writers such as Richardson, Fielding, Smollett, Sterne.

387 THE NINETEENTH-CENTURY ENGLISH NOVEL**3 sem. hrs.**

The English novel between 1800 and 1900, treating writers such as Austen, Thackeray, Dickens, Eliot, Hardy.

388 THE TWENTIETH-CENTURY ENGLISH NOVEL**3 sem. hrs.**

The English novel since 1900, treating writers such as Bennett, Lawrence, Woolf, Joyce, Greene.

390 RESEARCH STUDIES IN LANGUAGE ARTS**3 sem. hrs.**

Critical study of current practice and research in the language arts and language development.

391 SURVEY OF CLASSICAL RHETORIC**3 sem. hrs.**

Rhetorical theories from ancient Greece to 1900, emphasizing Plato, Aristotle, Cicero, and Quintilian.

392 MODERN THEORIES OF RHETORIC**3 sem. hrs.**

Studies of the principles of rhetoric to serve as a basis for understanding contemporary rhetorical theories.

394 TESOL PRACTICUM**1-6 sem. hrs.**

Observation, case studies, tutoring, instructional assistance, and/or direct instruction in English as a Second Language. Prerequisite: ENG 345.

395 PROBLEMS IN THE TEACHING OF ENGLISH**3 sem. hrs.**

Examination of theory and practice in the teaching of language, literature, and composition at the secondary and community college level. Prerequisite: Experience in teaching (student teaching acceptable), or ENG 296, 297.

396 THE WRITING SEMINAR**3 sem. hrs.**

Concentration upon a major writing project and the formulation of an individual writing portfolio. Prerequisite: a minimum of 12 hours of core courses in the writing minor, or graduate standing.

401 INTRODUCTION TO GRADUATE STUDY**3 sem. hrs.**

Introduction to bibliography, methods of research, critical evaluation of scholarship, and recent developments in literary theory and criticism. Prerequisite: Graduate standing.

402 INTRODUCTION TO THE COMPOSING PROCESS**3 sem. hrs.**

Surveys basic theoretical and empirical research into the composing process.

403 STUDIES IN POETIC FORMS AND CONVENTIONS**3 sem. hrs.**

Close analysis of selected poems from medieval to modern emphasizing the development of forms, genres, and traditions.

404 STUDIES IN NARRATIVE FORM AND THEORY**3 sem. hrs.**

Analysis of the development of narrative form and theory.

414 STUDIES IN SIXTEENTH-CENTURY BRITISH LITERATURE**3 sem. hrs.**

Several important authors such as More, Sidney, and Spenser, or a particular literary movement or genre.

415 STUDIES IN SEVENTEENTH-CENTURY BRITISH LITERATURE**3 sem. hrs.**

Selected seventeenth-century writers such as Bacon, Donne, Jonson, Herbert, Bunyan, (excluding Milton), or a particular literary movement or genre.

416 STUDIES IN EIGHTEENTH-CENTURY BRITISH LITERATURE**3 sem. hrs.**

Important authors of the period, such as Dryden, Pope, Swift, Johnson, or a particular movement or genre.

417 STUDIES IN ROMANTIC BRITISH LITERATURE**3 sem. hrs.**

Selected movements, genres, or authors such as Blake, Wordsworth, Coleridge, Byron, Shelley, Keats.

418 STUDIES IN VICTORIAN BRITISH LITERATURE**3 sem. hrs.**

Authors in the period 1832-1901, such as Browning, Carlyle, Tennyson, Mill, Arnold.

419 STUDIES IN CONTEMPORARY BRITISH LITERATURE**3 sem. hrs.**

Several figures such as Yeats, Joyce, Thomas, Pinter, or a movement or genre.

422 STUDIES IN SHAKESPEARE**3 sem. hrs.**

Major critical problems in representative plays of Shakespeare.

428 STUDIES IN DRAMA**3 sem. hrs.**

Advanced study in selected works and topics from English, American, and Continental drama.

431 STUDIES IN AMERICAN LITERATURE 1500-1830**3 sem. hrs.**

Figures, movements, or genres in the Puritan, Classical, and early Republican periods.

432 STUDIES IN AMERICAN LITERATURE 1830-1870**3 sem. hrs.**

Figures, movements, or genres in the American Romantic Period, treating authors such as Poe, Hawthorne, Emerson, Melville, Whitman.

433 STUDIES IN AMERICAN LITERATURE**1870-1920****3 sem. hrs.**

Figures, movements, or genres in the American Realistic-Naturalistic Period, treating authors such as Dickinson, Clemens, James, Crane, Dreiser.

434 STUDIES IN CONTEMPORARY AMERICAN LITERATURE**3 sem. hrs.**

Figures, movements, or genres in American literature since 1920, treating authors such as Eliot, Fitzgerald, Hemingway, Steinbeck, Faulkner.

440 STUDIES IN ENGLISH LINGUISTICS**3 sem. hrs.**

Advanced study and research in various aspects of the English language. Prerequisite: ENG 341 or equivalent.

445 TEACHING OF COMPOSITION IN THE COMMUNITY COLLEGE**3 sem. hrs.**

Methods for applying rhetorical theory to the teaching of writing.

447 CREATIVE WRITING SEMINAR**3 sem. hrs.**

Practice in the writing of either poetry or fiction for graduate level or professional writers. Available as 447.01 Creative Writing Seminar: Poetry; 447.02 Creative Writing Seminar: Prose. Consent of instructor.

449 RESEARCH IN TECHNICAL WRITING**3 sem. hrs.**

Survey of bibliographical tools in technical writing and study of major trends in published technical writing research. Prerequisite: ENG 402.

450 STUDIES IN ANCIENT LITERATURE**3 sem. hrs.**

Selected readings from antiquity, mostly Biblical and classical, with consideration of Eastern literature.

451 TOPICS IN TECHNICAL WRITING**3 sem. hrs.**

Advanced study of selected topics in the theoretical and interdisciplinary underpinnings of technical writing. Prerequisite: ENG 349 or consent of instructor.

452 THE TEACHING OF TECHNICAL WRITING**3 sem. hrs.**

Inquiry into the issues, methods, and resources involved in teaching technical writing at the college level. Prerequisite: ENG 349 and either 449 or 451 recommended.

454 STUDIES IN EUROPEAN ROMANTICISM**3 sem. hrs.**

Figures, movements, or genres of the period 1770-1850 in Europe, including authors such as Goethe, Rousseau, Hugo, Heine.

456 STUDIES IN MODERN WORLD LITERATURE**3 sem. hrs.**

Figures, movements, or genres in World Literature from the mid-nineteenth century to the present, including authors such as Dostoevsky, Tolstoy, Camus, Mishima, Solzhenitsyn.

470 STUDIES IN CHILDREN'S LITERATURE**3 sem. hrs.**

Topics in texts for children and adolescents: genres, authors, critical approaches, themes, or historical developments. May be repeated if content different.

471 CRITICAL THEORIES IN CHILDREN'S LITERATURE**3 sem. hrs.**

An introduction to the issues of critical theory in children's and adolescent literature.

482 STUDIES IN LITERARY CRITICISM**3 sem. hrs.**

Problems or topics in literary criticism and theory.

483 STUDIES IN RHETORIC AND STYLE**3 sem. hrs.**

Historical survey of theories of language, rhetoric, and English prose style. Prerequisite: ENG 241 or 310 or equivalent.

486 STUDIES IN THE ENGLISH NOVEL**3 sem. hrs.**

Topics in the development of the English novel, with attention to particular techniques, figures, themes or movements.

487 STUDIES IN THE AMERICAN NOVEL**3 sem. hrs.**

Topics in the development of the American novel, with attention to particular techniques, figures, themes or movements.

491 INTERNSHIP IN COLLEGE TEACHING OF ENGLISH**3 sem. hrs.**

Supervised teaching at a cooperating community college or university. See C&I 491.

492 RECENT RESEARCH IN THE ENGLISH LANGUAGE ARTS**3 sem. hrs.**

Advanced study of significant research for elementary and junior high levels.

495 TOPICS IN ENGLISH**1-3 sem. hrs.**

Advanced study and research in an announced area of language or literature.

497 RESEARCH METHODS IN COMPOSITION STUDIES**3 sem. hrs.**

Current research issues and methods in composition studies, with emphasis on experimental, formalistic, and naturalistic designs. Prerequisite: ENG 402 or consent of instructor.

498 PROFESSIONAL PRACTICE: INTERNSHIP IN ENGLISH**1-12 sem. hrs.**

Supervised field experience in English with local, state, national, and international businesses, agencies, institutions (including colleges and universities), and organizations. Prerequisite: Consent of instructor.

499 MASTER'S THESIS**1-6 sem. hrs.****510 PROFESSIONAL SEMINAR IN THE TEACHING OF ENGLISH****4 sem. hrs.**

Research and study of the nature of college teaching, including the community college, with emphasis upon the exploration of new methods. Prerequisites: one English methods course, psychology of learning, teaching experience.

540 SEMINAR IN LANGUAGE**4 sem. hrs.**

Research in one or more areas of linguistics, from descriptive and historical studies to theory of language or practical application. Prerequisite: ENG 341, or equivalent.

**560 SEMINAR IN SELECTED AREAS
IN LITERATURE**
4 sem. hrs.

Research in selected areas of literary study with attention to curricular and teaching theories. Prerequisite: Previous teaching experience.

590 SEMINAR IN COMPOSITION
4 sem. hrs.

Research in the history and philosophy of rhetoric with emphasis upon exploration of new techniques for the teaching of composition to students in community or four-year colleges.

**591 PRACTICUM (INTERNSHIP) IN
COLLEGE TEACHING**
4 sem. hrs.

Teaching of lower-division English courses with emphasis upon new techniques; under faculty direction, at Illinois State University or off campus; in conjunction with tutorial meetings. Prerequisite: completion of doctoral course work.

599 RESEARCH AND DISSERTATION
1-15 sem. hrs.

Research involving the gathering of materials and data and the writing of a dissertation.

FOREIGN LANGUAGES (FOR)

Chairperson: Carl Springer. Office: Stevenson Hall 114.

Graduate Faculty: J. Alstrum, A. Berry, W. Bohn, M. Davies, L. Heggie, M. Johnston, A. Kapanga, B. Kurtz, J.L. Laurenti, K. Nance, D. Parent, J. Reid, J. Rosenthal, E. Segelcke, C. Springer, R. Thomas, M. Trouille, D. Urey, J. Van Der Laan, A. Weeks, K. Widdison.

The Department of Foreign Languages offers work leading to the Master of Arts in Foreign Languages. The Master's degree program is a flexible one, permitting an emphasis in either teaching or non-teaching areas. Students may combine study in two foreign languages, or may concentrate on one language. Subject to departmental approval it is also possible to take up to three graduate courses in international business, T.E.S.O.L., international affairs, or other related areas of study. Within the major language area students may emphasize cultural studies, linguistics, literature or pedagogy. Instruction in courses dealing with the literature and culture of the major field (French, German, Spanish) is generally carried on in the language of specialization. Details about program design and course availability are available from the Department. All individual programs require approval of the student's graduate adviser and the Chairperson.

Admission Requirements

Applicants must have a minimum GPA of 2.8 for the last 60 hours of undergraduate work and must submit two letters of recommendation. They will customarily have an undergraduate major or equivalent in the area they want to pursue. Graduate School admissions requirements are listed elsewhere in this catalog. The Department of Foreign Languages reserves the right to examine applicants in order to ensure that they are able to understand, speak, and write the language of study with appropriate proficiency. In certain cases additional course work may be required to correct deficiencies.

Academic Requirements

All candidates for the Master of Arts degree in Foreign Languages must take designated courses in at least three of the following areas: culture, linguistics, literature and pedagogy, must complete a minimum of 32 semester hours of course work

with an average 3.0 GPA, and must pass a comprehensive examination. Students may choose to write a Master's thesis in addition to completing the above requirements. Details about academic requirements may be obtained from the Department of Foreign Languages.

Study-Abroad Option

Students may count up to nine hours of approved graduate study abroad toward degree requirements. Financial assistance for the semester abroad is usually available on a competitive basis, subject to availability of funds. The study-abroad opportunity should be discussed with the Graduate Adviser during the student's first semester in the program.

General Courses

300 RESEARCH IN FOREIGN LANGUAGES
1-3 sem. hrs.

Supervised work in a foreign language, in comparative language studies or in educational materials for the foreign language laboratory. Assignments will depend on the preparation and interest of the student. Prerequisite: Consent of department chairperson.

**319 PRINCIPLES IN FOREIGN
LANGUAGE LEARNING**
3 sem. hrs.

Processes of second language acquisition. Emphasis on the use of contrastive and error analysis to identify and predict common student errors in the target language. Prerequisites: French or Spanish 309 or 310 or German 309 or 313 or concurrent registration. C or better in C&I 216 or PSY 215 or concurrent registration. Includes Clinical Experiences: 25 hrs. Type 1, 5, 9, 10. Admission to Teacher Education.

**320 FOREIGN LANGUAGE TEACHING IN THE
SECONDARY SCHOOL**
2 sem. hrs.

Methods of teaching foreign languages in the secondary school. Special emphasis is given to materials and activities leading to mastery. Prerequisite: FOR 319. Includes Clinical Experience: 15 hours, Type 1, 5, 9, 10. Admission to Teacher Education.

**321 MEDIA MATERIALS AND THEIR USES IN
THE TEACHING OF FOREIGN LANGUAGES**
2 sem. hrs.

Supplementing the basic methodology of Foreign Language teaching with media materials and the techniques for their use in the language classroom. Includes clinical experiences 15 hours, Type 3, 5, 9, 10. Prerequisites: FOR 320, COM 240 recommended.

405 INTRODUCTION TO CULTURAL STUDIES
3 sem. hrs.

An introduction to contemporary theories of culture including ethnography, Marxism, feminism, semiotics. Emphasis on application to France, Germany, Spain and Latin America.

**480 ADVANCED TOPICS IN FOREIGN
LANGUAGE INSTRUCTION**
3 sem. hrs.

Exploration of methods and resources in foreign language teaching. May be repeated if content different. Prerequisite: FOR 320 or consent of department chairperson.

485 SELECTED STUDIES IN LINGUISTICS
3 sem. hrs.

Intensive study of a linguistic problem, work, or technique. Content may vary according to interest and needs of students. May be repeated with different content.

491 INTERNSHIP IN COLLEGE TEACHING IN THE FOREIGN LANGUAGES**1-3 sem. hrs.**

Credit for this course is given in Curriculum and Instruction. (See C&I 491.)

499 MASTER'S THESIS**1-6 sem. hrs.****French Courses****305 HISTOIRE DE LA CIVILISATION FRANCAISE****3 sem. hrs.**

Survey of French culture and civilization from ancient times to the present day. Prerequisites: Two courses beyond French 116.

309 FRENCH PHONETICS**3 sem. hrs.**

Scientific approach to French pronunciation. Correct formation of French sounds, practical application of the theory of phonetics. Prerequisite: Two courses beyond French 116.

315 SELECTED TOPICS IN MEDIEVAL FRENCH LITERATURE AND CULTURE**3 sem. hrs.**

Medieval French literature in the original and in modern French translation, in its cultural context. Prerequisites: Two courses beyond French 116. May be repeated if content is different.

316 SELECTED TOPICS IN SIXTEENTH-CENTURY FRENCH LITERATURE AND CULTURE**3 sem. hrs.**

The Renaissance as expressed in the leading writers of France in the 16th century, in their cultural context. Prerequisites: Two courses beyond French 116. May be repeated if content is different.

317 SELECTED TOPICS IN SEVENTEENTH-CENTURY FRENCH LITERATURE AND CULTURE**3 sem. hrs.**

Reading of plays by Corneille, Racine, and Moliere, and selections from other seventeenth-century writers, in their cultural context. Prerequisites: Two courses beyond French 116. May be repeated if content is different.

318 SELECTED TOPICS IN EIGHTEENTH-CENTURY FRENCH LITERATURE AND CULTURE**3 sem. hrs.**

Readings of representative literary texts from the Age of Enlightenment in their political, philosophical and socio-cultural contexts. Prerequisites: Two courses beyond French 116. May be repeated if content is different.

319 SELECTED TOPICS IN NINETEENTH-CENTURY FRENCH LITERATURE AND CULTURE**3 sem. hrs.**

Readings of representative nineteenth-century literary texts in their cultural (philosophical, political, social, economic, and historical) contexts. Prerequisites: Two courses beyond French 116. May be repeated if content is different.

320 SELECTED TOPICS IN TWENTIETH-CENTURY FRENCH LITERATURE AND CULTURE**3 sem. hrs.**

Modern authors, genres, or movements in 20th-Century French literature in their cultural contexts. Prerequisites: Two courses beyond French 116. May be repeated if content is different.

325 SELECTED TOPICS IN FRANCOPHONE LITERATURE AND CULTURE**3 sem. hrs.**

Readings of representative literary works in their cultural contexts written in French by authors residing outside France. May be repeated if content is different. Prerequisites: Two courses beyond French 116.

335 COMPARATIVE FRENCH/ENGLISH GRAMMAR AND STYLE**3 sem. hrs.**

Intensive, advanced, comparative grammar and composition, including analysis of stylistic differences between French and English. Prerequisites: FR 235 or permission of instructor.

385 SELECTED TOPICS IN FRENCH LITERATURE**3 sem. hrs.**

Intensive study of a genre, group of authors or a single major writer in French literature. This study varies each semester. Prerequisites: Two courses beyond French 116. May be repeated if content is different.

405 SEMINAR ON CONTEMPORARY FRENCH CIVILIZATION**3 sem. hrs.**

Intensive study of one or more aspects of contemporary French civilization. Prerequisites: FOR 305 or consent of the instructor. May be repeated if content is different.

420 SELECTED TOPICS IN FRENCH LITERATURE AND CULTURE**3 sem. hrs.**

Intensive study of French literature and culture organized around a particular period, genre, movement or theme, including both theory and practice. Content will differ.

440 SEMINAR ON FRENCH POETRY**3 sem. hrs.**

Intensive study of French poetry organized around a particular period, movement or theme, including both theory and practice. May be repeated if content is different.

450 SEMINAR ON FRENCH PROSE**3 sem. hrs.**

Intensive study of French prose organized around a particular period, movement or theme, including both theory and practice. May be repeated if content is different.

460 SEMINAR ON FRENCH THEATER**3 sem. hrs.**

Intensive study of a particular movement or period of French theater, including both theory and practice. May be repeated if content is different.

German Courses**302 GOETHE****3 sem. hrs.**

Reading and discussion of a number of major works. Prerequisite: Two courses beyond German 116.

303 SCHILLER**3 sem. hrs.**

Reading and discussion of a number of major works. Prerequisite: Two courses beyond German 116.

309 INTRODUCTION TO GERMAN LINGUISTICS**3 sem. hrs.**

Principles and methods of systematic language analysis applied to German, including phonetics, morphology, syntax, semantics, and history of the language. Prerequisites: Two courses beyond GER 116.

311 THE GERMAN NOVELLE**3 sem. hrs.**

Study of selected Novellen from Goethe and the Romantics through Poetic Realism and Naturalism to the twentieth century. Prerequisite: Two courses beyond German 116 required.

313 ADVANCED GERMAN COMPOSITION AND CONVERSATION**3 sem. hrs.**

Free discussion of topics of contemporary interest; oral and written themes based on class discussions. Prerequisite: German 213 or consent of department chairperson.

318 GOETHE'S FAUST**3 sem. hrs.**

A critical study of Parts I and II of Faust. Lectures, readings, and reports. Prerequisites: Two courses in German beyond 116.

332 GERMAN LYRIC POETRY**3 sem. hrs.**

Reading and interpretation of German lyric poetry from 800 A.D. to the present. Prerequisites: Two courses beyond German 116.

385 SELECTED TOPICS IN GERMAN LITERATURE**3 sem. hrs.**

Intensive study of a theme, genre, group of authors, or a single major writer in German literature. Prerequisite: Two courses in German literature. Provided different material is covered, the course may be taken for credit more than once.

424 STUDIES IN THE GERMAN LANGUAGE**3 sem. hrs.**

Advanced study in selected areas of German language or linguistics. May be repeated if content is different.

434 STUDIES IN THE GERMAN NOVEL**3 sem. hrs.**

Advanced study in selected works, authors and topics from the German novel. May be repeated if content is different.

444 STUDIES IN THE GERMAN DRAMA**3 sem. hrs.**

Advanced study in selected works and topics from the German Drama. May be repeated if content is different.

454 STUDIES IN GERMAN CULTURE AND CIVILIZATION**3 sem. hrs.**

Advanced study of German-language literary and non-literary texts illuminating various areas of German thought, culture, and social background. May be repeated if content is different.

Spanish Courses**305 CURRENT TOPICS IN HISPANIC CIVILIZATION AND CULTURE****3 sem. hrs.**

Recent trends, issues and changes in the Spanish-speaking world. Varying topics and pedagogical strategies for teaching culture. May be repeated if content is different. Prerequisite: SPA 217 or 218.

309 INTRODUCTION TO SPANISH LINGUISTICS**3 sem. hrs.**

Principles and methods of objective language analysis applied to relevant issues in Spanish. Prerequisite: SPA 235 or consent of instructor.

310 SPANISH SYNTAX**3 sem. hrs.**

Advanced study of contrasts in Spanish and English grammar with a focus on explaining the differences. Prerequisite: SPA 235 or consent of instructor.

331 SPANISH-AMERICAN LITERATURE I**3 sem. hrs.**

From the Colonial period through realism. Prerequisite: SPA 221 or 222 or 242.

336 SELECTED TOPICS IN SPANISH-AMERICAN LITERATURE**3 sem. hrs.**

Variable topics providing in-depth study of major authors, works, genres, themes or movements. May be repeated with different content. Prerequisite: SPA 221 or 222 or 242.

337 SELECTED TOPICS IN MODERN PENINSULAR SPANISH LITERATURE**3 sem. hrs.**

Major authors, genres or movements from Spanish literature of the 18th, 19th and 20th centuries. May be repeated with different content. Prerequisite: SPA 221 or 222 or 242.

338 SELECTED TOPICS IN MEDIEVAL SPANISH LITERATURE AND CULTURE**3 sem. hrs.**

Major authors, genres, or periods from Spanish literature of the Middle Ages, studied in cultural context. May be repeated with different content. Prerequisite: SPA 221 or 222 or 242.

339 SELECTED TOPICS IN SPANISH GOLDEN AGE LITERATURE AND CULTURE**3 sem. hrs.**

Major authors, works, genres, or movements from the Spanish Golden Age (1469-1700) in their historical/cultural context. May be repeated with different content. Prerequisite: SPA 221 or 222 or 242.

385 SELECTED TOPICS IN SPANISH LITERATURE**3 sem. hrs.**

Intensive study of a genre, movement, author, or work. This study varies each semester. May be repeated with different content. Prerequisite: SPA 221 or 222 or 242.

411 SPANISH-AMERICAN NOVEL**3 sem. hrs.**

The Spanish-American novel of the nineteenth and twentieth centuries with emphasis on the most characteristic authors of each period.

415 STUDIES IN SEVENTEENTH-CENTURY SPANISH LITERATURE**3 sem. hrs.**

Advanced study of representative authors and genres, with emphasis on the theater and the novel. May be repeated with different content.

418 STUDIES IN EIGHTEENTH- AND NINETEENTH-CENTURY SPANISH LITERATURE**3 sem. hrs.**

In-depth study of major authors, works, genres, themes or movements from Spanish literature of the 18th and 19th centuries. Either seminar or survey format. May be repeated with different content.

421 HISTORY OF THE SPANISH LANGUAGE**3 sem. hrs.**

The historical development of the Spanish language with particular attention to its phonology and morphology.

425 TOPICS IN HISPANIC LINGUISTICS**3 sem. hrs.**

Systematic examination of selected facets of the Spanish language. Prerequisite: SPA 309 or equivalent. May be repeated with different content.

431 STUDIES IN EARLY SPANISH-AMERICAN LITERATURE**3 sem. hrs.**

In-depth study of major themes of entire literature first introduced in chronicles, travel books and poetry between 16th and 18th centuries. May be repeated with different content.

434 STUDIES IN MODERN SPANISH-AMERICAN LITERATURE**3 sem. hrs.**

In-depth study or comparative analysis of figures, works, or genres of the 19th or 20th centuries. Seminar or survey format. May be repeated with different content.

470 DON QUIXOTE**3 sem. hrs.**

Reading of Don Quixote with special attention to the problems of interpretation and literary criticism.

484 STUDIES IN TWENTIETH-CENTURY SPANISH LITERATURE**3 sem. hrs.**

A study of the twentieth century novel, essay, poetry, or drama. May be repeated with different content.

GEOGRAPHY-GEOLOGY (GEO)

Chairperson: Robert Corbett. Office: Schroeder Hall 206.

Graduate Faculty: G. Aspbury, L. Barrows, J. Carter, R. Corbett, J. Day, J. Kirchner, D. Malone, R. Nelson, M. Sublett, W. Walters.

Master of Science in Geohydrology

The M.S. in Geohydrology is the sole graduate program offered by the department and focuses specifically on groundwater as a dynamic resource and as a component of environmental science. The program prepares graduates for careers in the areas of groundwater resources, the environmental protection of those resources, and environmental problems of a hydrogeologic nature.

Unconditional admission to the program requires students to have completed a baccalaureate degree in geology or earth science. Students with degrees from other natural sciences and engineering may apply, and course deficiencies will be determined from transcript evaluation. A plan of study will be developed to allow students to overcome any deficiencies. A minimum of two courses each of chemistry, physics and calculus is required for unconditional admission. A minimum "B" average in prior geology course work is also required. Scores from the general aptitude (only) Graduate Record Exam and three letters of recommendation must be submitted. Admission standards of the Graduate School must be met.

Thirty-two semester hours of course work are required for the M.S. degree, including completion of a written thesis. The 32 hours includes a required group of core courses (23 semester hours) including GEO 360, 362, 435, 439, 444, 452, 456 and 488, in addition to 4-6 semester hours of thesis research GEO 499. A minimum of 3.0 "B" average must be maintained in all graduate course work.

Note: Other course work, designated by a 300-level number, is available for graduate credit in both geography and geology as electives.

Courses**300 CARTOGRAPHY****3 sem. hrs.**

Theory and techniques regarding graphic representation of statistical data, including compilation, drafting, and reproduction of various types of thematic maps. Field trip and drafting supplies required. Prerequisite: GEO 145 recommended.

302 COMPUTER CARTOGRAPHY**3 sem. hrs.**

The application of the computer to contemporary cartography. Packaged software and student-generated programs are used to investigate various spatial problems. Prerequisite: GEO 204 and 300 or concurrent registration required. 3 hrs. computer programming recommended.

303 GEOGRAPHIC INFORMATION SYSTEMS**3 sem. hrs.**

Fundamental principles of geographic information systems; emphasis on raster and vector based systems and their applications to spatial analysis. Prerequisites: GEO 204 or ACS 155.02 or ACS 150 or concurrent registration.

304 GEOGRAPHIC INFORMATION SYSTEMS APPLICATIONS**3 sem. hrs.**

Advanced applications in geographic information systems (GIS) with an emphasis on problem solving, advanced GIS analysis techniques and a survey of vector- and raster-based GIS software and databases. Prerequisites: GEO 303 required. MAT 120 recommended.

305 REMOTE SENSING I**3 sem. hrs.**

Basic principles of image interpretation with photogrammetry. Techniques and measurements in remote sensing. Field trip required.

306 REGIONAL AND AREA STUDIES**1-9 sem. hrs.**

Intensive on-site study of particular lands, environments, cultures, and people. Field work required. Prerequisite: Consent of instructor.

308 QUANTITATIVE METHODS IN GEOGRAPHY**3 sem. hrs.**

Use and interpretation of basic statistical techniques in geographical problems. Prerequisite: GEO 204.

310 FIELD GEOGRAPHY**3 sem. hrs.**

Techniques for the systematic acquisition and interpretation of geographic field data. Includes an introduction to Orienteering. Field work required. Prerequisite: GEO 204 and 9 hrs. of geography required.

315 SEMINAR IN GEOGRAPHY**2 sem. hrs.**

Designed to acquaint the student with the career opportunities and subfields of geography. Prerequisite: 12 hrs. of geography required.

333 LOCATIONAL ANALYSIS**3 sem. hrs.**

Geographic location theory and spatial analysis applied to problems in retailing, wholesaling, and industrial activities. Prerequisites: GEO 150 required. MAT 144 or equivalent recommended.

336 URBAN GEOGRAPHY**3 sem. hrs.**

Internal morphology, external relationships, and other spatial aspects of cities.

338 LIFE AND LANDSCAPE**3 sem. hrs.**

Cultural landscapes and folklife in North America and Western Europe. Field work required. Individualized instruction. Prerequisite: GEO 135 or consent of instructor required.

345 PROBLEMS IN CONSERVATION AND OUTDOOR RECREATION**3 sem. hrs.**

Investigation of specific problems in conservation and resource use including outdoor recreational resources. Prerequisite: GEO 205.

351 CARTOGRAPHIC PROCESSES**3 sem. hrs.**

Techniques of design, production and reproduction of maps, including multi-separations, scribing, darkroom techniques and materials, and color proofing. Drafting supplies and A or B in GEO 300 required. Materials charge optional.

360 GROUNDWATER GEOLOGY**3 sem. hrs.**

Groundwater occurrence and movement, aquifer evaluation, field and lab measurements, contamination and other applications. Field trips required. Prerequisite: GEO 105 and 109; MAT 144 or equivalent.

362 ENGINEERING GEOLOGY**3 sem. hrs.**

Engineering applications of geology, construction problems of geologic origin and their engineering solutions. Field trips required. Prerequisites: GEO 105 and 109; PHY 108, MAT 144 or equivalent.

364 GEOPHYSICS**3 sem. hrs.**

Principles of exploration geophysics and the techniques that are used to study subsurface environments. Subjects reviewed include: stress and strain, information theory, seismic, gravity, magnetics, electrical resistivity, electromagnetic conductivity, ground penetrating RADAR, and borehole logging. Prerequisites: GEO 105, 285 and 290; MAT 145; and PHY 108 or consent of instructor.

370 URBAN AND REGIONAL PLANNING**3 sem. hrs.**

Introduction to the planning process and the major elements used in plan implementation such as zoning regulations, subdivision regulations, and the official map. Field research may be required.

375 ECONOMIC GEOLOGY OF FOSSIL FUELS**3 sem. hrs.**

Methods of exploration; origin, composition, accumulation, and production of petroleum; composition, classification and production of coal; world fuel resources. Prerequisite: GEO 107 and 109.

380 GEOMORPHOLOGY**3 sem. hrs.**

Origin, classification, description, and interpretation of landforms. Field trips required. Prerequisite: GEO 100 or GEO 105.

382 GLACIAL AND QUATERNARY GEOLOGY**3 sem. hrs.**

Development of glaciers, glacial movements, deposits, and landforms as background for discussion of present landscapes. Field trips required. Prerequisite: GEO 100 or GEO 105.

385 INVERTEBRATE PALEONTOLOGY**4 sem. hrs.**

Examination and analysis of major fossil invertebrate phyla; emphasis on groups with paleoecologic and stratigraphic significance. Lecture and lab. Field work required. Prerequisites: GEO 107 and 109. BSC 194 recommended.

395 FIELD GEOLOGY**6 sem. hrs.**

Application of geologic principles to field mapping and interpretation in the Black Hills and Central Rocky Mountains. Offered in the summer only, through the College of Continuing Education. Prerequisites: GEO 280, 285, 290 and 295.

435 COMPUTER MODELING OF GROUNDWATER SYSTEMS**3 sem. hrs.**

Advanced study of the mathematics of fluid flow and the formulation of groundwater systems by computer modeling. Methods of computer modeling of pumping tests and groundwater flow systems with an emphasis on the AQTESOLV, AQUIFEM, and MODFLOW programs. Prerequisites: GEO 360 and MAT 145 or equivalents.

439 GEOCHEMISTRY OF METEORIC WATERS**3 sem. hrs.**

Processes controlling, and composition of, meteoric waters. Methods of analysis, techniques of interpretation, and quality standards for uses. Prerequisites: GEO 360, CHE 140, 141 or consent of instructor.

444 APPLIED GROUNDWATER MODELING**3 sem. hrs.**

Applications of groundwater computer models to simulate flow, optimize development strategies, and remediate pollution problems in actual aquifers systems. Students assemble available information, develop and run computer simulations, and prepare professional reports. Prerequisites: GEO 360, 435, and MAT 145 or equivalents.

452 GEOLOGY OF WASTE DISPOSAL**3 sem. hrs.**

Examination of waste disposal formats, geologic constraints, geologic conditions, and leachate containment, adsorption, diffusion, dilution and breakthrough. Field trips required. Prerequisite: GEO 360 or equivalent.

456 PROBLEMS IN ENVIRONMENTAL GEOLOGY**3 sem. hrs.**

Examination of geological considerations and interpretations required in conducting environmental investigations mandated by law. Field trip and field work required. Prerequisite: GEO 276 or equivalent or consent of instructor.

488 GRADUATE TOPICS IN GEOHYDROLOGY**2-3 sem. hrs.**

Specific topics having geohydrologic consequences. Topics include Water Resource and Environmental Law (2 sem. hrs.), Aquifer Systems in Clastic and Carbonate Rocks (3 sem. hrs.) and Analytical Methods in Groundwater Geochemistry (2 sem. hrs.).

499 MASTER'S THESIS**1-6 sem. hrs.**

HISTORY (HIS)

Chairperson: John Freed. Office: Schroeder Hall 334.

Graduate Faculty: A. Beier, D. Chesebrough, I. Cohen, D. Davis, F. Drake, C. Ekberg, J. Freed, J. Grabill, S. Harmon, P. Holsinger, N. Holt, D. MacDonald, L. McBride, L. Perez, J. Rayfield, P. Riney-Kehrberg, K. Sessions, L.M. Simms, Jr., R. Soderlund, M. Tavakoli-Targhi, W. Wyman.

Master's Degree in History

The department requires for admission to the Master's program an undergraduate degree in history or a related field, 3.0 GPA in the last 60 hours of undergraduate work and any graduate work, a writing sample at least five pages in length, and completion of the GRE general examination. The GRE may be taken during the first semester in the program.

The Masteris program in History offers two degrees, two options, and six concentrations.

A student may choose either of two degrees.

Master of Arts: This degree is awarded to a student who has completed one of the options described below, a minimum of two years or four semesters of foreign language at the university level or a satisfactory score on a University administered foreign language test, and a minimum of 32 semester hours credit in humanities and social sciences beyond the language requirement.

Masters of Science: This degree is awarded to a student who has completed one of the options described below and HIS 392.

A student may choose one of two options.

Option 1: Thirty-two hours of credit and a master's thesis. The thirty-two hours of credit must include HIS 497 and at least sixteen hours of 400-level credit, as well as four to six hours of thesis credit (HIS 499). The student should take a minimum of nine hours in one of the fields of concentration.

Option 2: Thirty-nine hours of credit and two revised research papers. The thirty-nine hours of credit must include HIS 496 and 497 and at least eighteen hours of 400-level credit. Papers are to be turned in to the Graduate Advisor for evaluation by the middle of the student's last semester. The student should take a minimum of nine hours in one field of concentration and a minimum of six hours in a second field.

A student should declare the choice of options in writing to the Graduate Advisor as soon as possible.

Concentrations are intended to guide the student in experiencing the range of courses available. They are not degree requirements and do not appear on the transcript or diploma.

History Courses by Field of Concentration

U.S. to 1865: HIS 306, 311, 315, 320, 321, 322, 323, 329, 330, 411, 412, 414, 424. A student concentrating in U.S. history should take at least five hours in non-U.S. history. These hours may be included in the hours needed for a second field of concentration.

U.S. since 1865: HIS 306, 321, 322, 324, 325, 327, 329, 330, 414, 417, 421, 424, 428. A student concentrating in U.S. history should take at least five hours in non-U.S. history. These hours may be included in the hours needed for a second field of concentration.

Modern Europe: HIS 341, 342, 345, 355, 356, 361, 362, 366, 402, 441, 453, 461, 468. A student concentrating in European history should take at least five hours in U.S. history. These hours may be included in the hours needed for a second field of concentration.

Non-Western World: HIS 351, 373, 375, 378, 477. Suggested courses in other departments: POS 345, 347, ECO 302, 328.

Archives, Public History, Historical Archaeology: HIS 394, 395, 432, 498. Suggested courses in other departments: SOA 374, 380, 388.

History Education: HIS 394, 395, 405, 498. Suggested courses in other departments: C&I 401, 415, 421, 476, 490.

A student should declare the area, or areas, of concentration in writing to the Graduate Advisor as soon as possible. Students are encouraged to examine course offerings in other departments such as Geography-Geology, Political Science, Economics, Sociology-Anthropology, Philosophy, English, Foreign Languages, and Curriculum and Instruction for 300-level and 400-level courses which supplement History offerings. Such courses may be used in the History Master's degree program providing the student receives written permission from the History Graduate Advisor prior to enrollment and the courses are included on the approved Plan of Study before enrollment. A few examples of these courses are listed above.

Doctor of Arts

The Doctor of Arts in History is offered to persons seeking advanced training for teaching and curriculum leadership in colleges, community colleges, or high schools. Entry into the program normally requires a master's degree in history or a related discipline, successful teaching experience or a comparable background, and a permanent position to which the applicant can return. The program includes the following course requirements: (a) Core Courses (EAF 410 or its equivalent, HIS 496, 505, 506); (b) 16 semester hours in the major field consisting of 4 of the following courses (HIS 523, 524, 525, 530, 535, 536); (c) 8 semester hours in a research field in History; and (d) 6 semester hours in a related discipline in Education, the Humanities, or the Social Sciences. A comprehensive oral and written examination follows completion of all course work. The final requirement of the program is a dissertation (15 semester hours). A dissertation may be primarily concerned with the investigation of a historical topic, with one or more chapters showing how the material may be used in the classroom, or it may be primarily concerned with teaching or curriculum development. Although the degree of emphasis may vary from one dissertation to another, all dissertations should demonstrate competence both in dealing with historical material and its application in the classroom. There is a full-time residency requirement of at least two terms. A term may be a semester or a summer session of at least eight weeks. Full-time for residency is defined as at least 9 semester hours of course work during a semester or six semester hours during a summer session. For additional information, write to the Chairperson, Department of History, Illinois State University.

Courses

306 REGIONAL AND AREA STUDIES 1-9 sem. hrs.

Intensive study of particular lands, environments, cultures, and peoples. Usually given cooperatively with other departments. Prerequisite: Any 200-level HIS or consent of instructor. Materials charge optional.

311 AGE OF THE AMERICAN REVOLUTION 3 sem. hrs.

The emergence of the United States as an independent nation from 1763 to the Constitutional Convention in 1787.

315 SLAVERY AND THE OLD SOUTH**3 sem. hrs.**

Historiography of slavery and the pre-Civil War South. Prerequisite: HIS 135 or 257 or consent of instructor.

320 LINCOLN: THE MAN AND HIS TIMES**3 sem. hrs.**

Attention directed especially toward the work of Lincoln in Illinois, his leadership during the Civil War, and his relationship with people and events of his time. Prerequisite: Any 200-level Amer HIS or consent of instructor.

321 GREAT FIGURES OF AMERICAN HISTORY**3 sem. hrs.**

Personalities selected from American History with emphasis on the contributions and lasting influence of significant individuals. Prerequisite: Any 200-level Amer HIS or consent of instructor.

322 AMERICAN URBAN HISTORY**3 sem. hrs.**

Survey of the history of the American city from 1820 to the present. Prerequisite: Two 200-level HIS courses or consent of instructor.

323 AMERICAN CULTURAL AND INTELLECTUAL HISTORY, 1620-1860**3 sem. hrs.**

American progress in the fine arts, philosophy, literature, and science from Puritan times to 1860. Prerequisite: HIS 135 or consent of instructor.

324 AMERICAN CULTURAL AND INTELLECTUAL HISTORY, 1860-PRESENT**3 sem. hrs.**

The impact of naturalism, industrialization, secularization, and urbanization upon American culture since 1860. Prerequisite: HIS 136 or consent of instructor.

325 PROBLEMS IN TWENTIETH-CENTURY UNITED STATES CONSTITUTIONAL HISTORY**3 sem. hrs.**

An examination of major problems in American constitutional history since the Progressive Era: civil rights, freedom of speech and religion, federal-state relations. Prerequisite: Any 200-level Amer HIS or consent of instructor.

327 AMERICAN LABOR HISTORY**3 sem. hrs.**

The Industrial Revolution's impact upon workers, with emphasis on the responses through unions and politics and on the role of government. Prerequisite: HIS 136 or 137 or consent of instructor.

329 RURAL LIFE AND SOCIETY IN THE U.S., 1800-PRESENT**3 sem. hrs.**

Examines American rural society from 1800 to the present, with emphasis upon the impact of change upon farming communities. Prerequisite: 100- or 200-level U.S. HIS course or consent of instructor.

330 THE FAMILY IN HISTORY**3 sem. hrs.**

History of the family in Europe and America, viewing the changes from idealist, economic determinist, family systems, and psychoanalytic perspectives. Prerequisite: 100- or 200-level HIS course or consent of instructor.

341 EUROPEAN INTELLECTUAL HISTORY TO 1600**3 sem. hrs.**

The study of the ideas of the ancient world, Middle Ages, Renaissance, Reformation, examined in a social, political, and economic context. Prerequisite: HIS 101 or 102 or consent of instructor.

342 EUROPEAN INTELLECTUAL HISTORY SINCE 1600**3 sem. hrs.**

A study of the ideas of the scientific revolution, enlightenment, nineteenth century and twentieth century examined in a social, political, and economic context. Prerequisite: HIS 101 or 102 or consent of instructor.

345 FRENCH REVOLUTION AND NAPOLEON, 1789-1815**3 sem. hrs.**

Society, culture, and government under the monarchy; destruction of the old order; rise and fall of Napoleonic France. Prerequisite: Any 200-level Eur HIS or consent of instructor.

351 ANCIENT NEAR EAST**3 sem. hrs.**

Study of the civilizations of Mesopotamia and Egypt from the neolithic period to 500 B.C. Prerequisite: a 200-level or 300-level non-U.S. HIS course or consent of instructor.

355 POPULAR CULTURE IN EARLY MODERN EUROPE**3 sem. hrs.**

History of the culture of the common population of Europe 1400-1800: Pre-conditions, formation, principal elements, decline of the culture.

356 THE ENLIGHTENMENT**3 sem. hrs.**

Intellectual and social history of the western world during the eighteenth century. Prerequisite: HIS 102 or consent of instructor.

359 LATE MEDIEVAL AND TUDOR BRITAIN**3 sem. hrs.**

Economic, religious, cultural, and political history of Britain from the fourteenth to the seventeenth century. Prerequisite: HIS 231 or consent of instructor. Formerly HIS 226.

360 BRITAIN UNDER THE STUARTS**3 sem. hrs.**

Economic, religious, cultural, and political history of Britain under the Stuarts (1603-1714). Prerequisite: HIS 231 or consent of instructor. Formerly HIS 227.

361 EIGHTEENTH-CENTURY BRITAIN, 1689-1815**3 sem. hrs.**

Britain from the Revolution of 1688-89 through the early Industrial Revolution and Napoleonic wars. Prerequisite: Any 200-level Eur HIS or consent of instructor.

362 MODERN BRITAIN, 1815 TO THE PRESENT**3 sem. hrs.**

A general survey of British history in the nineteenth and twentieth centuries. Prerequisite: HIS 232 or consent of instructor.

366 SOVIET RUSSIA**3 sem. hrs.**

Study of communist revolution, culture, and dictatorship and its transformation into a contemporary European democracy.

373 HISTORY OF MODERN CHINA**3 sem. hrs.**

Concentrates on the Western and Chinese collision since the 1800's and the responses of traditional, national, and contemporary China to modernization. Prerequisite: HIS 125 recommended.

375 HISTORY OF MODERN JAPAN**3 sem. hrs.**

Concentrates on Japan's modernization, goals of Meiji leaders, contradictory tendencies of pre-war Japan, and contemporary Japan. Prerequisite: HIS 125 recommended.

378 ISLAM**3 sem. hrs.**

In-depth study of Islam, focusing on ideas rather than events. Topics include law, mysticism, art and resurgent Islam. Prerequisite: HIS 126 or consent of instructor.

**390 HISTORY-SOCIAL SCIENCE
TEACHING METHODOLOGY II****3 sem. hrs.**

History-Social Science materials, use of instructional models, and clinical experiences. Must be completed prior to student teaching. Prerequisites: C or better in HIS 290 and C&I 216 or concurrent registration and admission to Teacher Education. Includes clinical experiences.

**392 INSTRUCTIONAL TECHNOLOGY FOR
HISTORIANS****3 sem. hrs.**

Use of computers for retrieval and analysis of historical evidence and for presentation of information and in instruction. Prerequisite: 12 hours HIS or consent of instructor.

394 ORAL HISTORY**3 sem. hrs.**

The comprehensive study and use of oral history as a research tool, and its application as a teaching technique. Prerequisite: HIS 135 or 136 or consent of instructor.

395 ARCHIVES AND MANUSCRIPTS**3 sem. hrs.**

Nature, acquisition, processing, and use of archives and manuscripts. Emphasis on theory and principles with practical exercises. Prerequisite: Any 200-level HIS or consent of instructor.

402 SEMINAR IN EUROPEAN HISTORY**4 sem. hrs.**

Prerequisite: Graduate status.

405 PRACTICUM IN HISTORY TEACHING**4 sem. hrs.**

Pedagogic instruction in the theory and practice of teaching. Includes participation in instructing in the classroom. Prerequisite: Consent of history graduate advisor.

**411 SEMINAR: EIGHTEENTH-CENTURY
AMERICA****4 sem. hrs.**

Prerequisite: Graduate status.

412 SEMINAR: THE AGE OF JACKSON**4 sem. hrs.**

Prerequisite: Graduate status.

**414 SEMINAR: CIVIL WAR AND
RECONSTRUCTION****4 sem. hrs.**

Prerequisite: Graduate status.

**417 SEMINAR: TWENTIETH-CENTURY
AMERICA****4 sem. hrs.**

Prerequisite: Graduate status.

**421 SEMINAR ON AMERICAN IMMIGRATION
HISTORY****4 sem. hrs.**

Examination of important immigration issues, classic historical studies, and major research approaches, with emphasis on work in primary materials. Prerequisites: HIS 273 or consent of instructor. Graduate status.

**424 SEMINAR: AMERICAN CULTURAL
AND INTELLECTUAL HISTORY****4 sem. hrs.**

Prerequisite: Graduate status.

428 SEMINAR: AMERICAN DIPLOMACY**4 sem. hrs.**

Prerequisite: Graduate status.

**432 RESEARCH PROBLEMS IN
LOCAL HISTORY****4 sem. hrs.**

Prerequisite: Graduate status.

**441 SEMINAR: EUROPEAN
INTELLECTUAL HISTORY****4 sem. hrs.**

Prerequisite: Graduate status.

453 SEMINAR: THE REFORMATION**4 sem. hrs.**

Prerequisite: Graduate status.

461 SEMINAR: EARLY MODERN BRITAIN**4 sem. hrs.**

Prerequisite: Graduate status.

468 SEMINAR: MODERN RUSSIA**4 sem. hrs.**

Prerequisite: Graduate status.

**477 SEMINAR: THE CONTEMPORARY
MIDDLE EAST****4 sem. hrs.**

Prerequisite: Graduate status.

**496 PHILOSOPHY OF HISTORY
AND HISTORIOGRAPHY****4 sem. hrs.**

Examination of the philosophical bases for historical study with review of the development of historical knowledge and the historical profession. Prerequisite: Graduate status.

497 RESEARCH IN HISTORY**4 sem. hrs.**

Identifying, collecting, verifying, and organizing historical data and writing history. Preparation for writing theses, dissertations, and other research. Prerequisite: Graduate status.

**498 PROFESSIONAL PRACTICE:
PUBLIC/APPLIED HISTORY****1-12 sem. hrs.**

Supervised practical experience in a professional capacity in archives, business, government, historic preservation, historical archeology, historical editing, historical society or museum work. Prerequisites: 10 hours of graduate course work including HIS 497 and one seminar; completion of application procedures. Graduate status.

499 MASTER'S THESIS

1-6 sem. hrs.

505 SEMINAR AND PRACTICUM IN HISTORY TEACHING

4 sem. hrs.

Involves students in analyzing and evaluating teaching and research findings, examining alternative goals and teaching methods, and preparing model instructional units. Prerequisite: For doctoral students.

506 RESEARCH-INTERNSHIP IN THE TEACHING OF HISTORY

4 sem. hrs.

Involves students in analysis of research findings, a teaching internship, and planning a dissertation proposal. Prerequisite: For doctoral students.

523 INTERPRETIVE PROBLEMS IN WESTERN CIVILIZATION

4 sem. hrs.

Examination of selected interpretive problems in Western Civilization before 1500. Prerequisite: For doctoral students.

524 INTERPRETIVE PROBLEMS IN MODERN WESTERN CIVILIZATION

4 sem. hrs.

Examination of selected interpretive problems in Modern Western Civilization. Prerequisite: For doctoral students.

525 INTERPRETIVE PROBLEMS IN THE HISTORY OF NON-WESTERN CIVILIZATION

4 sem. hrs.

Examination of selected interpretive problems in the history of Non-Western Civilizations. Prerequisite: For doctoral students.

530 INTERPRETIVE PROBLEMS IN WORLD HISTORY

4 sem. hrs.

Examination of selected interpretive problems in World History. Prerequisite: For doctoral students.

535 INTERPRETIVE PROBLEMS IN U.S. HISTORY BEFORE 1865

4 sem. hrs.

Examination of selected interpretive problems in United States history before 1865. Prerequisite: For doctoral students.

536 INTERPRETIVE PROBLEMS IN U.S. HISTORY SINCE 1865

4 sem. hrs.

Examination of selected interpretive problems in United States History since 1865. Prerequisite: For doctoral students.

599 DOCTORAL DISSERTATION
Variable Credit

Mathematics, and Doctor of Philosophy in Mathematics Education degrees. At the master's level, concentrations are available for persons interested in secondary mathematics education, pure mathematics, statistics, computational mathematics, and applied mathematics. A Sequence in Elementary and Middle School Mathematics Education is available for teachers at those levels. The Ph.D. program is for persons seeking advanced preparation as teacher educators and mathematics education researchers. Graduate assistantships and instructorships are available.

Master's Degree Programs

The student must meet the general university requirements listed elsewhere in this catalog for either the Master of Arts or Master of Science degree. In addition, the student must complete either Option I in Mathematics, Option II in Mathematics, or the Sequence in Elementary and Middle School Mathematics Education described below.

Admission Requirements

Admission to Options I and II in Mathematics normally requires an undergraduate major in mathematics or secondary mathematics education. Admission to the Sequence in Elementary and Middle School Mathematics Education requires an appropriate background in mathematics content and methodology. Applicants lacking the required background for these programs may be admitted with deficiencies at the discretion of the department's graduate committee. Applicants whose undergraduate grade point average for the last sixty hours is less than 2.80 (but at least 2.60) may be admitted probationally and must make a grade point average of 3.0 during their first term (summer or semester) of study. To be retained in a program each student should submit scores on the Graduate Record Examination's Aptitude Test or Subject Test in Mathematics as soon as possible. Applicants may be admitted prior to the receipt of these scores, but scores should be received prior to the beginning of the student's second term (summer or semester) of study.

Option I in Mathematics

Thirty-nine hours of courses, with at least 30 in mathematics, including MAT 336, 337 and 347, are required. Eighteen hours must be at the 400 level, including at least 12 in mathematics. Three mathematics courses numbered 407 or above are required. All electives are subject to approval by the department's graduate committee.

Option II in Mathematics

Thirty-two hours of courses, with at least 24 in mathematics, including MAT 336, 337 and 347, are required. Fifteen hours must be at the 400 level, including at least 10 in mathematics. Three mathematics courses numbered 407 or above are required. All electives are subject to approval by the department's graduate committee. A written comprehensive examination over two areas, one of which must be algebra, analysis or statistics, is required.

Areas of Concentration

The graduate adviser will assist students in selecting electives in the following areas of concentration:

Secondary mathematics education: 401, 403, 421, 422

Doctoral study in mathematics: 407, 408, 447, 448

Statistics: 350, 351, 356, 450, 453, 455, 456, 458

Computational mathematics: 356, 361, 363, 370

Applied mathematics: 340, 341, 345, 356, 361, 362, 363, 370, 378

Other courses not yet listed in this catalog are also available. Contact the graduate adviser.

MATHEMATICS (MAT)

Chairperson: Lotus Hershberger. Office: Stevenson Hall 313.

Graduate Faculty: K. Berk, R. Day, J. Dossey, O. Edge, R. Eggleton, S. El-Zanati, S. Friedberg, J. Gamage, R. Hathway, L. Hershberger, A. Insel, G. Jones, C. Langrall, C. Lubinski, M. Marsalli, A. Otto, J. Parr, M. Plantholt, B. Rich, L. Sennott, T. Shilgalis, L. Spence, J. Swafford, C. Thornton, S. Tipnis, C. Vanden Eynden.

Programs Offered

The Department of Mathematics offers varied programs leading to the Master of Arts in Mathematics, Master of Science in

Sequence in Elementary and Middle School Mathematics Education

Persons who are teaching or who plan to teach at the elementary or middle school level may elect the Sequence in Elementary and Middle School Mathematics Education. Each student who elects this sequence must complete MAT 304, 305, 401, 402 and 403. Thirty-two hours of courses, with at least 24 in mathematics, are required. Fifteen hours must be at the 400 level, including at least 10 in mathematics. Either a written comprehensive examination or an approved thesis with no more than six hours of credit in MAT 499 is required. All electives are subject to approval by the department's graduate committee.

Doctor of Philosophy in Mathematics Education

The Department of Mathematics offers work leading to the Ph.D. in Mathematics Education. This program is designed to equip individuals with the skills necessary to train prospective and in-service teachers of mathematics, to develop and evaluate mathematics curricula, and to conduct, direct, and evaluate research related to the teaching and learning of mathematics. The program places special emphasis on the mathematics curriculum in grades K-12.

Two options are available depending on the grade level interest of the student. In addition to course work in mathematics, mathematics education, and research, students are expected to develop expertise in a cognate area such as curriculum, educational psychology, evaluation, supervision, human development, learning theory, or measurement.

Course requirements for the degree include 30 semester hours in mathematics education, 18-24 hours in mathematics, 9-12 hours in research methods, 12-15 hours in a cognate field, 3 hours for a professional project, and a minimum of 15 hours of dissertation credit. Students in the program must demonstrate competence in teaching prospective or practicing mathematics teachers. Some of these requirements may be satisfied by work completed prior to acceptance into the program. The student must also meet the other University requirements for Ph.D. programs listed else where in this catalog. A full-time student should normally complete the minimum course work for the program in 3 to 4 years past the bachelor's degree. Students must meet the Graduate School's residency requirement for a Doctor of Philosophy degree.

In addition to the Graduate School requirements given elsewhere in this catalog, it is recommended that applicants have prior teaching experience at the elementary or secondary level and completion of specified course work or degrees in mathematics depending on the option elected. For additional information write the Director of Graduate Studies, Department of Mathematics, Illinois State University.

Courses

302 TEACHING MATHEMATICS IN GRADES 5-8 3 sem. hrs.

Problems, viewpoints, and trends in teaching middle school or junior high mathematics. Implications of research related to organization, content and techniques for teaching mathematics in grades 5-8. Prerequisite: C or better in MAT 202, 204 or 312 or teaching experience. May include clinical experience.

304 TOPICS IN GEOMETRY AND MEASUREMENT FOR K-8 TEACHERS 3 sem. hrs.

Geometry and measurement topics related to the elementary and junior high school curricula. Prerequisites: C or better in MAT 202. Graphing calculator required.

305 TOPICS IN ALGEBRA AND COMBINATORICS FOR K-8 TEACHERS 3 sem. hrs.

Algebra and counting topics related to elementary and junior high school curricula. Prerequisite: C or better in MAT 202. Graphing calculator required.

307 MODERN ALGEBRA FOR K-8 TEACHERS 3 sem. hrs.

Algebraic concepts and structures relevant to grades K-8. Structure of familiar number systems compared to and contrasted with other mathematical systems. Prerequisites: C or better in MAT 207. Formerly MAT 205.

309 PROBLEM SOLVING IN GRADES K-8 3 sem. hrs.

Formulation, solution, and extension of problems from various areas of mathematics. Emphasis on inductive, deductive, and inferential reasoning and on solution processes and strategies. Prerequisite: C or better in MAT 204 and 207. Graphing calculator required.

312 PROBABILITY AND STATISTICS FOR K-8 TEACHERS 3 sem. hrs.

Descriptive statistics, lines of best fit, basic concepts of probability, simulation, probability distributions, expectation and counting techniques. Prerequisites: C or better in MAT 204 or 207 or consent of instructor. Graphing calculator required. May include Clinical Experience.

315 MATHEMATICAL MODELING FOR MIDDLE SCHOOL TEACHERS 3 sem. hrs.

Mathematical modeling and problem solving with applications involving networks and communication systems, finance, locating positions on the surface of the earth and biology. Prerequisites: C or better in MAT 309 and 312. Graphing calculator required.

320 HISTORY OF MATHEMATICS TO 1600 2 sem. hrs.

Emphasis on Greek geometry, and growth of algebra and algebraic notation from early Mesopotamia through Renaissance. Prerequisite: MAT 145 recommended.

321 HISTORY OF MATHEMATICS, 1600 TO PRESENT 2 sem. hrs.

Development of modern mathematics (analysis, algebra, geometry) and the people in the forefront, beginning with Descartes. Emphasis on 19th century. Prerequisite: MAT 147.

323 MATHEMATICS FOR THE SECONDARY SCHOOL 3 sem. hrs.

The selection, placement, and teaching of secondary mathematics topics. Analysis of recent trends and practices. Prerequisites: C or better in MAT 211; C or better in MAT 236, or concurrent registration; C&I 216 and at least 2.2 GPA. Includes clinical experiences, 35 hrs. Type 1-5, 9; admission to Teacher Education. Graphing calculator required.

326 COMPUTER-EXTENDED MATHEMATICS FOR SECONDARY SCHOOLS 3 sem. hrs.

Integrating computers and calculators into the secondary mathematics curriculum. Prerequisites: MAT 175. Graphing calculator required.

330 NUMBER THEORY**3 sem. hrs.**

Divisibility, primes, unique factorization, numerical functions, congruences, Diophantine equations, other topics. Prerequisite: MAT 175.

336 ADVANCED ABSTRACT ALGEBRA**3 sem. hrs.**

Introduction to groups, including permutation, symmetry and matrix groups, homomorphisms, normality, quotient groups, applications. Prerequisite: MAT 175 required; MAT 236 recommended.

337 ADVANCED LINEAR ALGEBRA**4 sem. hrs.**

Abstract vector spaces, linear transformations and matrices, inner product spaces, eigenvalues and eigenvectors, diagonalization. Applications to geometry, the physical and social sciences. Prerequisite: MAT 175.

340 DIFFERENTIAL EQUATIONS I**3 sem. hrs.**

First order differential equations, linear differential equations, systems of differential equations, applications of differential equations, numerical solutions. Prerequisites: C or better in MAT 147; MAT 175 or concurrent registration; and C, FORTRAN, Pascal, PL/I or approved programming language.

341 DIFFERENTIAL EQUATIONS II**3 sem. hrs.**

Power series solutions, Laplace transform, theory of first-order equations, Fourier series, boundary-value problems, introduction to partial differential equations (Laplace, heat, and wave equations). Prerequisites: MAT 175 and 340.

345 ADVANCED CALCULUS**4 sem. hrs.**

Calculus of functions of several variables; Taylor's series of several variables, maxima and minima, Lagrange multipliers, inverse and implicit function theorems, multiple integration, line integrals, Green's, Stokes' and the divergence theorems. Prerequisite: MAT 147 and 175.

347 ADVANCED REAL ANALYSIS**4 sem. hrs.**

The real number system, topology of metric spaces, sequences, continuous functions, uniform convergence, differentiation, Taylor's Theorem, Riemann integration, the fundamental theorem of calculus, infinite series, power series, applications. Prerequisite: MAT 336 or 337 or consent of instructor.

350 MATHEMATICAL STATISTICS I**4 sem. hrs.**

Sample spaces, probability, random variables, probability density functions, moment generating functions, empirical distributions, sampling distribution theory, confidence intervals, maximum likelihood estimation, applications. Prerequisite: MAT 147.

351 MATHEMATICAL STATISTICS II**4 sem. hrs.**

Chi-square, F, t, and bivariate normal distributions; Central Limit Theorem; goodness-of-fit tests; correlation and regression; analysis of variance; randomized block designs; nonparametric methods. Prerequisites: MAT 147 and 350.

353 THE ANALYSIS OF TIME SERIES**4 sem. hrs.**

Theory and application of regression and time series methods with reference to business and economic time series. Topics include regression, exponential smoothing, and Box-Jenkins methods. A computer statistical package will be used. Prerequisites: ECO 331, or MAT 350, or consent of instructor. Also offered as ECO 353.

356 STATISTICAL COMPUTING**4 sem. hrs.**

Application of the SAS, SPSS programs to real data, emphasizing regression, and analysis of variance. Prerequisites: Two statistics courses, some facility with matrices.

361 TOPICS IN DISCRETE MATHEMATICS**2-4 sem. hrs.**

Study of selected areas of discrete mathematics. Consult the Class Registration Directory for the topics to be offered and the hours of credit to be earned during any given semester. Each topic may be taken once. Prerequisite: MAT 175 and approved programming language.

362 LINEAR PROGRAMMING**2-4 sem. hrs.**

Modeling and solution of problems using the simplex method. Duality, sensitivity, integer programming. Transportation problems. Prerequisites: C or better in MAT 175 and C, FORTRAN, Pascal, PL/I or approved programming language.

363 GRAPH THEORY**2-4 sem. hrs.**

Introduction to graph theory, connectivity, matching, coloring, network flows with applications to communication reliability, scheduling, and traffic flow problems. Prerequisites: MAT 175 and FORTRAN, Pascal, PL/I or approved programming language.

370 NUMERICAL ANALYSIS**4 sem. hrs.**

Interpolation and approximation, error analysis, differentiation, integration, techniques for solving differential equations, root finding. Applications and computational techniques. Prerequisites: C or better MAT 175 and C, FORTRAN, Pascal, PL/I or approved programming language.

378 MATHEMATICAL MODELING**4 sem. hrs.**

Applications of mathematics modeling to fields including biology, economics, engineering, political science, psychology, and sociology. Project required. Prerequisites: MAT 175 and 350 required; MAT 340 recommended.

380 INTRODUCTION TO LIFE CONTINGENCIES**4 sem. hrs.**

Survival distributions, life tables; the mathematics of life insurance, life annuities, net premiums, and net premium reserves. Prerequisites: MAT 280 and 350.

383 CREDIBILITY THEORY AND LOSS DISTRIBUTION**3 sem. hrs.**

Bayesian estimation and credibility theory, application of statistical theory to the development and estimation of loss distributions. Prerequisites: C or better in MAT 351.

401 CURRENT RESEARCH IN SCHOOL MATHEMATICS**3 sem. hrs.**

Analysis of research in mathematics education and its implications for instruction in school programs. Prerequisite: EAF 410 or 509 or consent of instructor.

402 INSTRUCTIONAL STRATEGIES FOR ELEMENTARY AND JUNIOR HIGH MATHEMATICS**3 sem. hrs.**

Selecting, utilizing and evaluating instructional organization, laboratory materials and pedagogical techniques for elementary school mathematics programs. Prerequisites: MAT 401 and 403 recommended.

403 THEORIES OF MATHEMATICS LEARNING**3 sem. hrs.**

Overview of theories of how students learn mathematics and the implications of these theories for classroom teaching and research.

404 ISSUES AND TRENDS IN TEACHING ELEMENTARY AND MIDDLE SCHOOL MATHEMATICS**3 sem. hrs.**

Analysis of the role of the teacher, student, and content in the learning environment. Prerequisites: Two of the following: MAT 401, 402, or 403.

406 ADVANCED TOPICS IN ASSESSMENT IN ELEMENTARY AND JUNIOR HIGH MATHEMATICS**2-3 sem. hrs.**

Analytical approaches and instructional procedures for assessment and evaluation in elementary and junior high school mathematics.

407 ABSTRACT ALGEBRA I**4 sem. hrs.**

Group theory including the Sylow theorems and other advanced topics; ring theory. Prerequisite: MAT 336 or consent of instructor.

408 ABSTRACT ALGEBRA II**4 sem. hrs.**

Modules with the canonical decomposition theorems; field and Galois theory. Prerequisite: MAT 407 or consent of instructor.

410 TOPICS IN NUMBER THEORY**3-4 sem. hrs.**

Topics vary, but are often chosen from Diophantine equations, continued fractions, Diophantine approximations. Additional topics and applications will be covered in the 4-hour version. Prerequisite: MAT 330 or consent of instructor.

414 TOPICS IN ADVANCED GEOMETRY**2-4 sem. hrs.**

Topics may include advanced differential geometry, combinatorial problems in geometry, convexity and Helly's Theorem, sets of constant width, isoperimetric problems, and others which may vary among different instructors. Prerequisite: Consent of instructor.

421 TOPICS IN ALGEBRA FOR TEACHERS**3 sem. hrs.**

Problems in teaching of secondary school algebra. Investigation of reports, research, and recent trends in this area. Prerequisite: MAT 175 or 236 and teaching experience.

422 TOPICS IN GEOMETRY FOR TEACHERS**3 sem. hrs.**

Problems in teaching secondary school geometry. Investigation of reports, research, and recent trends. Objectives and content of secondary school geometry. Prerequisite: MAT 211.

447 REAL ANALYSIS I**4 sem. hrs.**

Inadequacy of Riemann integration, theories of measure and integration, function spaces, Hilbert spaces, linear functionals, orthogonal functions and Fourier series. Prerequisites: MAT 337 and 347.

448 REAL ANALYSIS II**4 sem. hrs.**

Additional topics on measures, linear operators on function spaces, spectral theories of compact and self-adjoint operators, Banach spaces, duality. Applications in probability and analysis. Prerequisite: MAT 447.

450 FINITE SAMPLING**3-4 sem. hrs.**

Application and theory of sampling, mathematical sampling; simple, stratified, and cluster. Evaluation of plans with respect to precision and cost. Additional topics and applications will be covered in the 4-hour version. Prerequisite: MAT 350.

453 REGRESSION ANALYSIS**3-4 sem. hrs.**

Linear regression models and the F-test. Model Fitting: analysis of residuals, transformations, and the selection of variables. The analysis of variance via regression. Additional topics and applications will be covered in the 4-hour version. Prerequisites: MAT 175 and 351.

455 APPLIED STOCHASTIC PROCESSES**3-4 sem. hrs.**

Processes important in numerous applications. Finite and countable state Markov chains, the Poisson process, birth-death processes, elementary queueing theory, renewal processes, and others. Prerequisite: MAT 350.

456 MULTIVARIATE STATISTICS**3-4 sem. hrs.**

Review of regression and analysis of variance. The multivariate normal distribution, discriminant analysis, multivariate analysis of variance, factor analysis. Computational procedures. Prerequisites: MAT 175, 351.

458 THE DESIGN OF EXPERIMENTS**3-4 sem. hrs.**

Linear models and the logic of planned experimentation, choice of statistical technique, and analysis of data. Additional topics and applications will be covered in the 4-hour version. Prerequisite: MAT 351.

495 PROSEMINAR**1-3 sem. hrs.**

Supervised presentation by students of recently published mathematics and discussion of problems related to reading the mathematics literature. Prerequisite: Consent of doctoral committee.

499 MASTER'S THESIS**1-6 sem. hrs.****530 MODULES IN MATHEMATICS EDUCATION****Variable credit**

Modules in mathematics education including mathematics curriculum, analysis of mathematics learning, general methods of teaching mathematics, strategies for teaching mathematics, evaluation in mathematics, and diagnosis and remediation of learning difficulties in mathematics. Modules are selected in consultation with adviser. Each module carries from one to three hours of credit. Prerequisite: Approval of doctoral adviser.

581 SEMINAR IN RESEARCH AND DEVELOPMENT IN MATHEMATICS EDUCATION**3 sem. hrs.**

Analysis of research in strategies or methods for teaching mathematics and in the learning of mathematics. Analysis of curriculum projects as they relate to these research findings. Analysis of current research and consideration of the implications of this research for new curricular innovations, and for classroom teaching. Prerequisite: Approval of Ph.D. director.

582 HISTORY OF MATHEMATICS EDUCATION**3 sem. hrs.**

Study of the development of mathematics education since colonial times. Readings of major books, recommendations, and papers. Prerequisite: Admission to Ph.D. program in Mathematics Education.

**583 PROFESSIONAL PROJECTS IN
MATHEMATICS EDUCATION**
3 sem. hrs.

Designed to provide intensive work under direct supervision of faculty on a project in mathematics education. Prerequisite: Approval of Ph.D. director.

584 MATHEMATICS CURRICULUM K-12
3 sem. hrs.

Study of trends in the mathematics curriculum K-12, research on curriculum in mathematics, and major curriculum projects in mathematics. Prerequisite: MAT 582.

**585 TOPICS IN MATHEMATICS
EDUCATION SEMINAR**
1-3 sem. hrs.

Intensive inquiry into topics in mathematics education through research, discussion, and reports. May be repeated with approval of Ph.D. director. Prerequisite: Admission to Ph.D. program in mathematics education.

**586 MATHEMATICS TEACHING AND
TEACHER EDUCATION**
3 sem. hrs.

Analysis of the research in mathematics teaching and teacher education. Prerequisite: MAT 584.

**587 ISSUES AND TRENDS IN SECONDARY
SCHOOL MATHEMATICS**
3 sem. hrs.

Analysis and evaluation of current and experimental curricular and instructional materials in light of historical and current professional recommendations. Prerequisites: MAT 582 or consent of instructor.

599 DISSERTATION
Variable credit

Research, library search, curriculum study, and writing related to Doctor of Philosophy dissertation requirement. Prerequisite: Approval of Ph.D. director.

MICROBIOLOGY

(See Biological Sciences)

PHILOSOPHY (PHI)

Chairperson: Julie Gowen. Office: 412 Stevenson Hall.
Graduate Faculty: H. Deutsch, J. Gowen, S. Stillwell.

Note: Graduate degrees are not granted in the Department of Philosophy, but course work is available as supplemental study or as electives.

Courses

**305 TWENTIETH CENTURY
PHILOSOPHY**
3 sem. hrs.

Examination of major philosophical movements of the 20th century focusing on representative figures. Prerequisite: One PHI course. May be repeated if different content.

330 MORAL THEORY
3 sem. hrs.

Examination of the meaning and justification of value judgments. Problems concerning moral objectivity, the fact-value gap, the possibility of moral knowledge. Prerequisite: Two PHI courses.

339 TOPICS IN THE PHILOSOPHY OF ART
3 sem. hrs.

Philosophical questions about visual, musical, literary and theatre arts. Problems concerning expression, aesthetic experience, representation, the nature of art, and the possibility of objective evaluation of art works. No prerequisite for graduate students. May be repeated.

340 TOPICS IN POLITICAL PHILOSOPHY
3 sem. hrs.

Intensive examination of one or two selected topics in political philosophy, such as liberty, justice, equality, rights, community, democracy, political obligation. Graduate students may enroll without previous PHI courses. May be repeated.

**350 TOPICS IN THE HISTORY
OF PHILOSOPHY**
3 sem. hrs.

Intensive examination of an important figure, movement, or theme in the history of philosophy, e.g., Plato, British Empiricism, freewill/determinism. Prerequisite: PHI 254 or 255. May be repeated.

361 THEORY OF KNOWLEDGE
3 sem. hrs.

Classic and contemporary theories of knowledge. Problems of meaning, truth, certainty, a priori knowledge, induction, perception, belief, and evidence. Prerequisite: Two PHI courses.

362 METAPHYSICS
3 sem. hrs.

Classic and contemporary metaphysical theories. Problems of substance, change, universals, time, space, mechanism, teleology, and freedom. Prerequisite: Two PHI courses.

390 INDEPENDENT STUDY
1-3 sem. hrs.

Prerequisites: One PHI course and consent of instructor and dept. chairperson.

PHYSICS (PHY)

Chairperson: George Skadron. Office: 311 Moulton Hall.
Graduate Faculty: B. Clark, R. Grobe, S. Hassani, D. Holland, K. Karim, R. Martin, H. Matsuoka, S. Ren, G. Rutherford, J. Schroer, G. Skadron, Q. Su, R. Young.

Note: Graduate degrees are not granted in the Department of Physics, but course work is available as supplemental study or as electives.

Courses

301 TEACHING HIGH SCHOOL PHYSICS
3-4 sem. hrs.

Modern methods and problems confronting teachers of high school physics. Includes observation and clinical experiences for 4 hrs. credit. Prerequisites: 18 hrs. in PHY, C&I 216 with grade of C or better, or concurrent registration. Admission to Teacher Education, includes clinical experiences, 35 hours, Type 1-6.

320 MECHANICS II
3 sem. hrs.

Coordinate transformations, nonlinear oscillations, Hamilton's Principle, Lagrangian and Hamiltonian mechanics, rigid body motion. Prerequisites: PHY 220 and MAT 340; MAT 175 and ACS 164 recommended.

355 SOLID STATE PHYSICS**3 sem. hrs.**

Crystal structures, X-ray and electron diffraction, lattice vibrations and thermal properties, binding energy, conduction of electrons, band theory, dielectric and magnetic properties, defects, metals, semiconductors, and insulators. Prerequisites: PHY 325.

375 ELECTRONICS FOR SCIENTISTS**3 sem. hrs.**

DC and AC circuit analysis with an introduction to the electrical properties of semiconductors; theoretical and experimental analysis of semiconductor diode, transistor, and operational amplifier circuits. Prerequisite: PHY 109 or 111. Lecture and lab.

384 QUANTUM MECHANICS II**3 sem. hrs.**

Quantum theory with applications to simple systems, the hydrogen atom, angular momentum, state lifetimes, and perturbation theory. Prerequisites: PHY 284 and MAT 340.

387 METHODS OF MATHEMATICAL PHYSICS**3 sem. hrs.**

Vector analysis, curvilinear coordinates, finite-dimensional linear spaces, matrices and determinants, function and Hilbert spaces, classical orthogonal polynomials, Fourier series and transform, complex analysis, residue theorem, partial differential equations, separation of variables, ordinary differential equations Sturm-Liouville systems, Green functions, numerical methods. Prerequisites: PHY 240 and MAT 340 or concurrent registration.

388 ADVANCED COMPUTATIONAL PHYSICS**3 sem. hrs.**

Application of computational methods to contemporary topics in physics, including nonlinear classical and quantum dynamics or physical problems that involve many degrees of freedom. Prerequisites: PHY 220, 240, 284, and 288, or consent of instructor.

POLITICAL SCIENCE (POS)

Chairperson: Thomas Eimermann. Office: Schroeder Hall 306.
Graduate Faculty: R. Bradley, J. Brooks, A. Cohen, E. Davis, T. Eimermann, G. Gordon, R. Hunt, G. Kiser, G. Klass, N. Lind, A. Monroe, J. Nassar, C. Parodi, R. Payne, E. Rexford, F. Roberts, T. Wang.

Master's Degree in Political Science

The Department offers work leading to the following degrees: M.A., M.S. Concentrations are offered in the Public Service and Global Studies areas. The degree may be completed either by the thesis option or by taking comprehensive examinations.

Admission Requirements

To be admitted to a degree program in Political Science, an applicant should have a 3.0 grade point average in the last 60 hours of undergraduate work and also have completed at least 15 hours of undergraduate course work in Political Science with a 3.0 average. Applicants whose background lacks this preparation in Political Science may be admitted under the condition that deficiencies be remedied. Admission to the master's degree in Political Science does not require submission of GRE scores.

Courses**309 ADVANCED QUANTITATIVE RESEARCH TECHNIQUES****3 sem. hrs.**

The application of advanced quantitative research techniques to the study of politics. Prerequisite: POS 209 or consent of instructor.

310 VOTING AND ELECTIONS**3 sem. hrs.**

Intensive investigation of U.S. voting behavior and electoral process; includes instruction in analytical techniques. Prerequisites: POS 105 or 209 or consent of instructor.

312 PUBLIC OPINION**3 sem. hrs.**

Includes attention to social and psychological bases of public opinion, current trends, methods of measurement, and opinion-policy linkages. Prerequisite: POS 105 or 209 or consent of instructor.

313 COLLECTIVE DECISION-MAKING**3 sem. hrs.**

Game theory approach to decision-making in large groups, including legislatures, unions, oligopolies, bureaucratic organizations, and international negotiations. Prerequisite: 3 hours POS or consent of instructor.

318 ADMINISTRATIVE LAW**3 sem. hrs.**

An overview of administrative law topics such as legislative, executive, and judicial control of administrative actions, public and private access to information, the administrative hearing process, and other due process concerns. Prerequisites: 60 hours or consent of instructor. POS 215 recommended.

323 STATE POLITICAL SYSTEMS**3 sem. hrs.**

Exploration of the nature of state politics through comparison, contrast and synthesis of micropolitical and macropolitical research in state politics. Prerequisite: POS 221 or consent of instructor required.

324 TOPICS IN PUBLIC LAW**3 sem. hrs.**

Selected topics focusing on specialized aspects of public law. Prerequisites: POS 101 or 105 or consent of instructor required. POS 215 recommended. May be repeated if content different.

325 CONSTITUTIONAL LAW: FUNCTIONS AND POWERS**3 sem. hrs.**

Major Supreme Court decisions on federalism, separation of powers, taxation, commerce, voting, and citizenship. Prerequisites: 60 hours or consent of instructor. POS 215 recommended.

326 CONSTITUTIONAL LAW: DUE PROCESS RIGHTS**3 sem. hrs.**

An examination of major Supreme Court decisions involving both procedural and substantive due process rights. Prerequisites: 60 hours or consent of instructor. POS 215 recommended.

327 CONSTITUTIONAL LAW: EQUALITY AND FREE EXPRESSION**3 sem. hrs.**

An examination of major Supreme Court decisions involving discrimination, and freedom of speech, press, assembly, and religion. Prerequisites: 60 hours or consent of instructor. POS 215 recommended.

329 THE POLITICS OF FEDERALISM**3 sem. hrs.**

Federalism in theory and practice, focusing on U.S.; politics and policy in intergovernmental contexts; recent initiatives and current problems. Prerequisites: POS 221 or consent of instructor.

330 PROBLEMS OF PUBLIC ADMINISTRATION
3 sem. hrs.

Varied approaches to problems relevant to public policy, organization development, management, staff, or personnel concerns, and applied behavioral techniques. May be repeated if content is different. Prerequisite: POS 231 or consent of instructor.

331 PUBLIC PERSONNEL ADMINISTRATION
3 sem. hrs.

The personnel process in American bureaucracy: matching the individual and the job; employer-employee relations; employee motivation; problems and prospects. Prerequisite: POS 231 or consent of instructor.

332 PUBLIC POLICY ANALYSIS
3 sem. hrs.

Comparative policy research; an assessment of factors affecting policy formation and approaches to evaluation of consequences of specific domestic public programs. May be repeated if content different. Prerequisite: POS 209 or 232 or consent of instructor.

333 POLITICS, BUDGETS, AND TAXES
3 sem. hrs.

Meaning, significance, content and historical evolution of government budgeting processes and reforms at all levels of government, as well as the political implications of fiscal reforms. Prerequisite: POS 231 or consent of instructor.

334 THE POLITICS OF RACE, ETHNICITY AND INEQUALITY
3 sem. hrs.

Analysis of contending theories and ideologies concerning the role of race and ethnicity in American politics and public policy. Prerequisites: POS 101 or 105 or consent of instructor. POS 214 or 231 or 232 or 327 recommended.

335 COMMUNITY DEVELOPMENT
3 sem. hrs.

An examination of strategies and techniques employed in the United States and abroad in community development. Prerequisites: POS 101 or 105 or consent of instructor.

340 TOPICS IN LATIN AMERICAN POLITICS
3 sem. hrs.

Selected topics focusing on specialized aspects of Latin American politics. Prerequisite: One of the following courses: POS 145, 240, GEO 230, HIS 127, 263 or consent of instructor.

341 TOPICS IN EUROPEAN POLITICS
3 sem. hrs.

Selected topics focusing on specialized aspects of European politics. Prerequisites: One of the following courses: POS 141, 242, 243, GEO 240, 245, HIS 229, 234, 237, 366 or consent of instructor. May be repeated if content different.

344 TOPICS IN GLOBAL STUDIES
3 sem. hrs.

An intensive review and analysis of critical global problems and strategies for dealing with them. Prerequisite: One of the following: POS 150, 151, 251, 252, 254, 255, 256, or consent of instructor. May be repeated if content different.

345 TOPICS IN ASIAN POLITICS
3 sem. hrs.

Selected topics focusing on specialized aspects of Asian Politics. Prerequisite: One of the following: POS 145, 245, 255; HIS 373, 375, or consent of instructor. May be repeated if content different.

349 TOPICS IN MIDDLE EAST POLITICS
3 sem. hrs.

Selected topics focusing on specialized aspects of Middle East politics. Prerequisites: One of the following courses POS 145, or 259, or HIS 272, or consent of instructor. May be repeated if content is different.

350 TOPICS IN CROSS-REGIONAL POLITICS
3 sem. hrs.

Selected topics in comparative politics that cut across regional boundaries. Prerequisites: POS 141 or 145 or consent of instructor. May be repeated if content is different.

351 INTERNATIONAL LAW
3 sem. hrs.

Political nature, legal principles, and juridical procedures and cases of contemporary international law. Prerequisite: One of the following: POS 151, 251, 252, 254, 255, 256, or consent of instructor.

358 INTERNATIONAL POLITICAL ECONOMY
3 sem. hrs.

An analysis of the structures of political power in the international political economy. Prerequisites: POS 151, 251, 252, 254, 255, 256, or consent of instructor.

361 TOPICS IN POLITICAL THEORY
3 sem. hrs.

Selected advanced topics covering specific concepts or authors in political theory. Prerequisites: POS 101, 105, or 161 or 60 semester hours or consent of instructor. May be repeated if content different.

Seminars/Topics

The content of the following seminars/topics will vary according to the interests of the particular instructor offering the course. Provided different material is covered, a seminar/topic may be repeated.

411 SEMINAR IN AMERICAN POLITICS
3 sem. hrs.**412 TOPICS IN AMERICAN POLITICS**
3 sem. hrs.

A selected topic, e.g., presidency, Congress, mass political behavior, selected policy problems, etc. May be repeated once if content differs.

421 SEMINAR IN STATE AND LOCAL POLITICS
3 sem. hrs.**422 SEMINAR IN URBAN POLITICS**
3 sem. hrs.**431 SEMINAR IN PUBLIC ADMINISTRATION**
3 sem. hrs.**432 SEMINAR IN JUDICIAL POLITICS**
3 sem. hrs.**433 TOPICS IN PUBLIC ADMINISTRATION**
3 sem. hrs.

A selected topic, e.g., organization theory and behavior, public management, personnel, etc. May be repeated once if content differs.

441 SEMINAR IN COMPARATIVE POLITICS
3 sem. hrs.

442 TOPICS IN COMPARATIVE POLITICS**3 sem. hrs.**

A selected region, e.g., Western Europe, Middle East, Africa, Latin America, etc., or selected topic, e.g., global development. May be repeated once if content differs.

451 SEMINAR IN INTERNATIONAL RELATIONS**3 sem. hrs.****452 TOPICS IN INTERNATIONAL RELATIONS****3 sem. hrs.**

A selected topic, e.g., international political economy, international law and organizations, foreign policy problems, etc. May be repeated once if content differs.

461 SEMINAR IN POLITICAL THEORY**3 sem. hrs.****490 READINGS IN POLITICAL SCIENCE****1-3 sem. hrs.**

For the student who would benefit from more specialized or independent study adapted to his/her background and needs. To be taken only with permission of the student's adviser.

491 INTERNSHIP IN COLLEGE TEACHING IN POLITICAL SCIENCE**3 sem. hrs.**

Credit for the course is given in C&I (see C&I 491).

497 INTRODUCTION TO RESEARCH METHODOLOGY**3 sem. hrs.**

An introduction to empirical political analysis, concentrating on selection of a research problem, collection of data, research design, and execution of a complete research project. Emphasis on understanding and interpreting frequently used statistical concepts. Provides a background for the preparation of the thesis. Enables the student to become an intelligent consumer of the products of professional political science research.

498 PROFESSIONAL PRACTICE**1-6 sem. hrs.**

Public service or paralegal internship.

499 MASTER'S THESIS**1-6 sem. hrs.****PSYCHOLOGY (PSY)**

Chairperson: Larry Alferink. Office: 435E DeGarmo Hall.

Graduate Faculty: L. Alferink, R. Bergner, L. Berk, J. Binning, S. Catanzaro, G. Creasey, E. DeSouza, V. Farmer-Dougan, W. Gnagey, D. Graybill, D. Hardwick, E. Harris, C. Horton, A. House, P. Jarvis, J. Johnson, D. Lamb, S. Landau, J. Laurent, C. Nordstrom, K. Pfost, J. Pryor, G. Ramseyer, G. Redding, G. Reeder, L. Schmaltz, M. Stevens, M. Swerdlik, K. Williams, M. Williams.

The Department of Psychology offers the MA and MS in Psychology, the Specialist in School Psychology and the Ph.D. in School Psychology. All graduate students are required to take PSY 418, 420, and 341 (or 442).

The department operates a psychological clinic for the assessment and treatment of children and families. Some graduate students enrolled in the practica spend part of their time working in this clinic.

Admission Requirements

To be admitted to a Psychology degree program, an applicant must have at least a 3.0 grade point average in the last 60 hours of undergraduate work and must present Graduate Record Examination (GRE) Scores for both the General and Subject (Psychology) Tests. In special circumstances, applicants may be admitted for one semester on a provisional basis pending the receipt of GRE scores. In addition, the applicant must complete the departmental application and arrange to have three letters of recommendation forwarded to the department.

Psychology

It is possible for the student to select one of a number of sequences the department offers: Clinical, Counseling, Developmental, Educational, Experimental, General, Industrial-Organizational and Measurement-Statistics. Departmental requirements and descriptions are given below. For more specific information interested students are requested to send their inquiries to the chairperson of the department or the sequence coordinator. Students must complete either a thesis or a comprehensive examination requirement.

Clinical

This sequence requires two years of study and is designed to prepare students to provide counseling and psychological assessment services in settings such as mental health centers, family service agencies, other mental health facilities, and community colleges.

Students are trained in psychotherapy, family, marital, and group therapies, and psychological assessment. Students may elect to plan a program emphasizing child and family treatment. The program includes two semesters of practica in campus and community settings which build on course work in basic psychology, psychological assessment, and theories and techniques of psychotherapy. 48 hours required.

Students who complete this sequence are eligible to sit for the Licensed Professional Counselor Exam, and if licensed, for independent practice.

Counseling

This sequence requires two years of study and is designed to prepare students for counseling positions in settings such as community colleges, mental health centers, family service agencies, substance abuse treatment facilities, managed care organizations or for doctoral studies. 48 hours required.

Developmental

This sequence is designed for students who plan on pursuing doctoral work or for students who desire to pursue a career applying developmental psychology to problems of children, adolescents, or the elderly. 32 hours required.

Educational

This sequence is designed for teachers who already possess reasonable knowledge of their major teaching field but who wish to know more about the teaching-learning process and human behavior. 32 hours required.

Experimental

This sequence is designed primarily for students who wish to study psychology with the plan of applying for doctoral study in the areas of cognition, learning, memory, neuropsychology, perception, social and cognitive science. 32 hours required including a research thesis.

Industrial-Organizational

Students selecting this sequence can gain preparation for positions in personnel, training, management, labor relations, or to enhance their effectiveness in their present position. 37 hours are required.

Measurement-Statistics

Students selecting this sequence can gain knowledge which will facilitate careers in computer applications, educational evaluation, advanced graduate study, psychometrics, and teaching. 32 hours required.

School Psychology

Specialist Degree in School Psychology

This program requires three years of study and is designed to prepare students to function as school psychologists in public schools. Successful completion of the program leads to certification as a school psychologist by the Illinois State Board of Education and eligibility as a Nationally Certified School Psychologist (NCSP) by the National Association of School Psychologists. The department operates a psychological services clinic and participates in a multidisciplinary psychoeducational center for the assessment and treatment of children and families. As part of their year-long practicum, students spend their time working in these settings and in school-based sites. Students must complete a thesis and an internship. 61 hours are required.

Doctoral Degree in School Psychology

The department offers work leading to a Ph.D. degree in School Psychology. The doctoral program is designed to prepare professionals to assume a variety of leadership positions in the field, including direct service provider, supervisor of psychological services and university trainer. Graduate work in a variety of settings such as public and private schools, universities, hospitals, mental health centers and independent practice. In addition to core courses in the basic areas of psychology, students are required to choose from among four skill sequences in which to specialize. These sequences include assessment, intervention (including therapy), supervision/administration, consultation/program evaluation.

A student's program will include formal course work, practica, year-long internship and a dissertation. Students are required to be in residence for at least one academic year. Completion of the doctoral program, with the required post-doctoral experience, qualifies the student to sit for the clinical psychologist licensing exam in the State of Illinois. Completion of the doctoral program also leads to certification as a school psychologist by the Illinois State Board of Education and for eligibility as a Nationally Certified School Psychologist (NCSP) by the National Association of School Psychologists.

Professional Development Sequence in Social Aspects of Aging

Social Aspects of Aging Sequence is a multidisciplinary program designed to offer a limited number of academically and professionally oriented graduate experiences in aging. The sequence is housed in the Graduate School with advisement provided by the Psychology Department in cooperation with the Departments of: Sociology and Anthropology, Family and Consumer Sciences, and Speech Pathology and Audiology.

Requirements for Admission to the Program: Potential applicants must have earned a bachelor's degree (or equivalent) and meet the requirements for admission to the Graduate School as students-at-large. Credit for courses may be applied

to a graduate degree program if approved by a specific graduate program. (See Policy of Graduate School.) Potential applicants may contact the Graduate School or specific department advisers for application forms and further information.

Sequence Requirements: 12 hours required, which includes 1) Seminar in Gerontology (3 hours) to be taken after at least six of the other required hours have been completed, and 2) 9 hours of electives from among the following gerontology related courses:

Required Course (3 hours)

Seminar in Gerontology (SOC 469.08) Advanced treatment of gerontology including approximately one-third in overview of current gerontological issues plus selected topics in gerontology, e.g., Economics of Aging, Cross-Cultural Aspects of Aging, the Future of Aging.

Elective Courses (9 hours)

Health Aspects of Aging (HSC/FCS 394) Characteristics of the aging process and factors influencing adaptation and the quality of living.

Gerontological Psychology (PSY 304) Psychological aspects of developmental transformations occurring during later adulthood. Application of psychology to problems of aging.

Human Communication and the Aging Process (COM 331) An examination of the particular communication needs of the aging and current research in the field.

Families in Later Life (FCS 305) Exploration of family dynamics in later life. Emphasis on developmental tasks, needs, and decision-making issues of aging family members.

Experience in Gerontology: Each student enrolled in the Sequence may negotiate with the Sequence Representative in the sponsoring department credit for 3 hours of "experience" in gerontology. This may include, but is not limited to, 400 Independent Study or 498 Professional Practice in any department/program which is relevant to the Sequence. Each "experience" is expected to involve some focused writing and analysis assignments. This experience should ordinarily be permitted after other courses are completed - at least *Seminar in Gerontology*. If the experience is of a "selected problems" type, a proposal should be approved by the Departmental Sequence Adviser no later than the 5th week of the semester.

Courses

301 DEVELOPMENTAL PSYCHOLOGY OF CHILDHOOD 3 sem. hrs.

Motor, cognitive, and emotional development and personality growth of children, birth through pre-adolescence. Prerequisite: PSY 111.

302 DEVELOPMENTAL PSYCHOLOGY OF ADOLESCENCE 3 sem. hrs.

Motor, cognitive, and emotional development and personality growth of the adolescent. Prerequisite: PSY 111. May include clinical experiences.

303 ADULT DEVELOPMENT AND AGING 3 sem. hrs.

A study of physical, cognitive, and personality development during adulthood, with emphasis on theories, empirical data, research methods, and current issues. To receive graduate credit for the course, students will complete an independent project in addition to the regular course requirements. Prerequisite: PSY 111.

304 GERONTOLOGICAL PSYCHOLOGY**3 sem. hrs.**

Psychological aspects of developmental transformations occurring during later adulthood. Applications of psychology to problems of aging. Prerequisite: PSY 111.

305 PSYCHOLOGY OF WOMEN**3 sem. hrs.**

An examination of psychological research to place in scientific perspective the etiology and behavioral consequences of female- and male-oriented attitudes. Prerequisite: PSY 111.

320 HISTORY AND SYSTEMS OF PSYCHOLOGY**3 sem. hrs.**

Historical antecedents of modern psychology, beginning with Aristotle. Examination of modern psychology from a systematic point of view. Prerequisite: PSY 111.

331 STUDIES IN EXPERIMENTAL PSYCHOLOGY**3 sem. hrs.**

Individualized research course focusing on particular content areas. Sections concentrate on different areas. Repeatable but not in the same content area. Prerequisites: PSY 231, 240. Majors only.

333 PRINCIPLES OF BEHAVIOR MODIFICATION**3 sem. hrs.**

Principles of behavior modification with an emphasis upon their use in a variety of educational and clinical settings. Prerequisite: PSY 111.

334 PSYCHOLOGICAL MEASUREMENT**3 sem. hrs.**

Selection, evaluation, and interpretation of psychological tests, with emphasis on basic theory. Tests are considered as indicators of constructs in specific decision situations. Prerequisite: PSY 111.

341 STATISTICS II**3 sem. hrs.**

Logic of statistical inference: Interval estimation, complex hypothesis testing, and non-parametric techniques. Applications in behavioral sciences. Prerequisite: PSY 240.

345 COMPUTER APPLICATIONS IN PSYCHOLOGY**3 sem. hrs.**

Application of computer technology to psychology. Special emphasis is placed on the use of computer statistical packages to analyze psychological data. Prerequisites: PSY 240 and MAT 144 or MAT 120. Majors only or consent of department chair.

346 PSYCHOLOGY OF EXCEPTIONAL CHILDREN**3 sem. hrs.**

A study of the socio-psychological factors influencing the exceptional child's cognitive and affective development with implications for those working with exceptional children. Prerequisite: PSY 112 or 301 or 302 or 232 or C&I 210 or consent of instructor. May include clinical experiences.

347 BEHAVIOR DISORDERS IN CHILDREN**3 sem. hrs.**

Medical, psychological, sociological aspects of behavioral disorders of children. Prerequisite: PSY 111.

350 PSYCHOPATHOLOGY**3 sem. hrs.**

Behavior disorders; neuroses, psychoses, character disorders, mental deficiencies, and other psychopathological conditions. Prerequisite: PSY 111.

360 LEARNING**3 sem. hrs.**

Experimental data bearing on the problem of learning; learning theory; learning data and theory in relation to applied problems. Prerequisite: PSY 111.

361 PERCEPTION**3 sem. hrs.**

Cognitive processes and their relationship to other processes. Relationship of sensation, attention, and memory to perception and factors influencing perception. Prerequisite: 9 semester hours of PSY, or consent of instructor.

363 PHYSIOLOGICAL PSYCHOLOGY**3 sem. hrs.**

Neurophysiological and biochemical substrates of behavioral processes including sensorimotor, perceptual, motivational, emotional, and intellectual behaviors. Prerequisites: 9 semester hours of PSY and BSC 100, or consent of instructor.

364 MOTIVATION**3 sem. hrs.**

Evolution of basic concepts leading to contemporary explanation of determiners of action with application to vocational, social, and educational areas. Prerequisite: 9 semester hours of PSY.

365 DYNAMICS OF SOCIAL BEHAVIOR**3 sem. hrs.**

An overview of the explanations for various aspects of social behavior, e.g., interaction, attitudes, person perception, etc. Prerequisite: PSY 131.

366 COGNITIVE PSYCHOLOGY**3 sem. hrs.**

Information processing analysis of perception, attention, memory, language, and thinking. Prerequisites: 9 semester hours of PSY and PSY 231 or consent of instructor.

375 PERSONNEL PSYCHOLOGY**3 sem. hrs.**

Procedures and methods used to match individual skills and abilities to the requirements of specific jobs; emphasis is on personnel selection. Prerequisite: PSY 230 or 334.

376 ORGANIZATIONAL PSYCHOLOGY**3 sem. hrs.**

Research methods and results concerning social psychology of work organizations. Descriptions of practices of organizational psychology. Prerequisite: PSY 230. Not for credit if had MQM 221 or 421.

400 INDEPENDENT STUDY**1-4 sem. hrs.**

Refer to Index for General Courses.

418 THEORIES OF LEARNING**3 sem. hrs.**

A consideration of the major contemporary learning theories and their relationship to experimental data. Prerequisite: PSY 231 or 360.

420 THEORIES OF PERSONALITY**3 sem. hrs.**

Analysis of major theoretical formulations concerning personality with emphasis upon their current status and evidential bases.

421 ADVANCED BEHAVIOR MODIFICATION**3 sem. hrs.**

Techniques for changing behavior through manipulation of environment. General principles of conditioning plus their application to patterns of problem behavior. Prerequisite: PSY 331 (operant) or 333 or 360, or consent of instructor.

431 THEORY AND RESEARCH IN SOCIAL PSYCHOLOGY**3 sem. hrs.**

Topics include methods of research in social psychology, social cognition, persuasion, sex roles, self, helping and aggression, and group processes. Prerequisite: PSY 365 or consent of instructor.

432 PSYCHODIAGNOSTICS I**3 sem. hrs.**

Theory of and training in individual mental testing with emphasis on the Binet and the Wechsler tests. Prerequisites: PSY 350 or concurrent registration and consent of instructor. Materials charge optional.

433 PSYCHODIAGNOSTICS II**3 sem. hrs.**

Theory of projective methods and development of competence in the use of selected procedures. Prerequisites: PSY 432 and consent of instructor.

434 DEVELOPMENTAL ASSESSMENT OF INFANTS AND PRESCHOOL-AGE CHILDREN**4 sem. hrs.**

Psychological evaluation of the infant and preschool-age child from a developmental-ecological perspective, with experience in administering and interpreting selected instruments. Prerequisites: Prior course work in assessment and consent of instructor.

435 DIAGNOSTIC PROCEDURES**3 sem. hrs.**

Emphasis is on the assessment, diagnosis, and remediation of learning disabilities with particular stress on a psycholinguistic approach. Prerequisites: Graduate standing in Psychology and consent of instructor.

436 PRACTICUM**1-12 sem. hrs.**

Clinical practice in university facilities and outside agencies. Provides training in diagnosis and treatment. Fifteen hours per week. Prerequisites: Clinical or Counseling, PSY 432 and 464 and consent of instructor; School, PSY 432, 433, and 435 and consent of instructor. May be repeated to a total of twelve semester hours.

437 GROUP PSYCHOTHERAPY AND COUNSELING**3 sem. hrs.**

Theory and research in group dynamics, techniques of group therapy and counseling. Methods of evaluating groups, direct experience as group member and group leader. Prerequisites: PSY 464 and consent of instructor.

438 TECHNIQUES OF OBJECTIVE PSYCHOLOGICAL ASSESSMENTS**3 sem. hrs.**

Clinical application of representative techniques of objective measurement. Selection, integration, and interpretation of tests will be included. Prerequisites: PSY 334 and consent of instructor.

439 INTRODUCTION TO NEUROPSYCHOLOGICAL ASSESSMENT**3 sem. hrs.**

Designed to prepare the student to make clinical judgments regarding cognitive and personality deficits related to brain function. Prerequisites: PSY 432; PSY 363 recommended.

441 EXPERIMENTAL DESIGN**3 sem. hrs.**

Statistical principles of experimental design; selection, analysis, and interpretation of Analysis of Variance and Covariance designs in the behavioral sciences. Prerequisite: PSY 341.

442 TEST THEORY**3 sem. hrs.**

Theory and principles of test reliability and validity, topics in test theory, statistical procedures applicable to psychometric methods. Prerequisites: PSY 240 and 334.

444 MULTIVARIATE ANALYSIS**3 sem. hrs.**

Topics covered include basic matrix algebra and linear transformations, analysis of covariance with multiple covariates, multivariate significance tests of group differences, discriminant analysis, multivariate analysis of variance. Prerequisite: PSY 441.

447 CHILDHOOD PSYCHOPATHOLOGY**3 sem. hrs.**

Characteristics, prevalence rates, and theories of the psychological disorders of childhood. Prerequisite: Graduate standing. PSY 301, 347, or 350 recommended.

455 COGNITIVE SCIENCE**3 sem. hrs.**

This course provides a survey of the broad interdisciplinary field of cognitive science. Cognitive psychology, artificial intelligence, linguistics, philosophy, and neuroscience will be discussed in terms of underlying theoretical frameworks which relate these diverse areas to the common study of mind. Prerequisite: PSY 361, 363, or 418.

463 BRAIN AND BEHAVIOR RELATIONSHIPS**3 sem. hrs.**

A survey of the relationship of the brain to various behavioral systems with particular emphasis on the developing brain. Prerequisites: Graduate standing and PSY 363.

464 THEORIES AND TECHNIQUES OF COUNSELING**3 sem. hrs.**

Goals, methods, and procedures of different theoretical positions. Emphasis is on interpersonal dimensions of the counseling interview. Crosslisted SED and CJS.

465 VOCATIONAL COUNSELING**3 sem. hrs.**

Acquiring and using occupational and educational information. Consideration of job requirements and training opportunities; developing occupational units; nature of vocational development. Also listed as SED 465.

466 SUBSTANCE ABUSE COUNSELING**3 sem. hrs.**

The history, assessment methods, conceptual perspectives, intervention strategies, and empirical research relevant to substance abuse and its treatment. Prerequisites: Graduate standing and consent of instructor.

470 CLINICAL PSYCHOLOGY**3 sem. hrs.**

Traces history and philosophy of profession from assessment, psychotherapeutic and research traditions. Prerequisite: Graduate standing in Clinical, Counseling, or School Psychology or consent of instructor.

472 THEORY AND PRACTICE OF SCHOOL PSYCHOLOGY**3 sem. hrs.**

The roles, functions and professional problems in School Psychology. Prerequisites: Open only to students in School Psychology Program, consent of instructor.

474 THEORY AND PRACTICE OF MENTAL HEALTH CONSULTATION IN THE SCHOOLS

3 sem. hrs.

Examination of consultation theory, research, and practice by school psychologists. Prerequisites: Graduate standing and consent of instructor.

480 SEMINAR IN PSYCHOLOGY

1-3 sem. hrs.

Intensive study of special topics in psychology. May be repeated for credit with different subject matter. Prerequisite: Consent of instructor.

481 COMMUNITY MENTAL HEALTH

3 sem. hrs.

Social systems as they affect individual mental health. Conceptual models, typical programs, methods of analyzing communities, and methods for designing community mental health programs. Prerequisite: PSY 350. Consent of instructor.

491 INTERNSHIP IN COLLEGE TEACHING OF PSYCHOLOGY

3 sem. hrs.

Credit for this course is given in C&I (see C&I 491). Open only to advanced psychology majors.

498 PROFESSIONAL PRACTICE

1-12 sem. hrs.

Available in Developmental, Measurement and Statistics, Industrial-Organizational and School Psychology. Refer to Index for General Courses. Prerequisite: Consent of program coordinator.

499 MASTER'S THESIS

1-6 sem. hrs.

Refer to Index for General Courses.

500 INDEPENDENT STUDY

1-4 sem. hrs.

Refer to Index for General Courses.

501 ADVANCED SEMINAR IN PROFESSIONAL SCHOOL PSYCHOLOGY

3 sem. hrs.

Advanced topics in School Psychology, including legal-ethical issues and professional problems. Prerequisite: Consent of instructor.

530 ADVANCED SEMINAR AND PRACTICUM IN ASSESSMENT OF CHILDREN AND ADOLESCENTS

3 sem. hrs.

Examination of current issues related to traditional and nontraditional assessment approaches. In-depth exploration of special topics and related field experiences. Prerequisites: PSY 432, 433, 435, and 436 and/or consent of instructor.

536 SEMINAR AND PRACTICUM IN SUPERVISION OF SCHOOL PSYCHOLOGICAL SERVICES

3 sem. hrs.

Goal of the course is to prepare school psychologists to supervise colleagues at various stages of their professional development. Prerequisites: Graduate standing in School Psychology and consent of instructor.

539 SEMINAR AND PRACTICUM IN NEUROPSYCHOLOGICAL ASSESSMENT OF CHILDREN

3 sem. hrs.

Examination of current professional issues related to neuropsychological assessment. Prerequisites: Graduate standing, PSY 432, 435, 463, and consent of instructor.

540 SEMINAR AND PRACTICUM IN PROGRAM EVALUATION

3 sem. hrs.

Theory and practices of assessing impact and/or value of programs and projects involving psychoeducational interventions. Prerequisites: PSY 441, 442, and SED 513.

580 ADVANCED SEMINAR IN CHILD AND ADOLESCENT THERAPEUTIC INTERVENTIONS

3 sem. hrs.

Examination of current professional and research issues related to therapeutic interventions. Exploration of research literature on special topics. Prerequisites: PSY 421, 447, and 464, and consent of instructor.

590 ADVANCED PRACTICUM IN CHILD AND ADOLESCENT THERAPEUTIC INTERVENTIONS

3 sem. hrs.

Practical field-based experience in implementation and evaluation of counseling and therapy with children and adolescents. Prerequisites: PSY 580 and consent of instructor.

598 DOCTORAL INTERNSHIP IN SCHOOL PSYCHOLOGY

6 sem. hrs.

The supervised practice of school psychology in a school and/or clinical setting. Prerequisite: Consent of the Coordinator of the Doctoral Program in School Psychology.

599 DISSERTATION RESEARCH

Variable credit

Research relating to the dissertation requirements for the Ph.D. in School Psychology. Approval of the department chair required.

SOCIAL WORK (SWK)

Acting Chairperson: Susan Smith. Office: Rachel Cooper 313
Graduate Faculty: M. Campbell, M. Cunningham, J. Howard, S. Smith, Q. Sullivan.

Note: Graduate degrees are not granted in the Department of Social Work, but course work is available as supplemental study or as electives.

Courses

323 CHILD WELFARE SERVICES

3 sem. hrs.

Recommended before SWK 398.10 if student wishes placement in a child-serving agency. Services for dependent, neglected, and handicapped children. Prerequisite: SWK 222 recommended, or Family and Consumer Sciences major or Special Education major.

SOCIOLOGY AND ANTHROPOLOGY (SOA)

Chairperson: Nick Maroules. Office: Schroeder Hall 338.
Director of Graduate Studies: William Tolone. Office: Schroeder Hall 355.

Graduate Faculty: R. Dirks, D. Ervin, T. Gerschick, L. Giles, V. Gill, C. Griffin, B. Heyl, W. Leonard, N. Maroules, K. McKinney, M. Nickels, C. Orser, W. Rau, R. Schmitt, P. Schollaert, J. Skibo, S. Sprecher, J. Stanlaw, R. Stivers, S. Thomas, W. Tolone, M. Toro-Morn, R. Treadway, R. Walsh, R. Wazienski, A. Wortham.

Master's Degree in Sociology

The department offers work leading to the M.A. and M.S. degrees in Sociology. The 37 hour minimum of graduate work must include Sociology 440, 466, 471, 472, and at least nine additional hours of Sociology courses at the 400 level, excluding SOC 473, 490, Independent Study, Readings, and the four hours for the Master's Thesis. The remaining 12 hours may be taken at the 300 or 400 level and may include up to six hours in related non-sociology courses and up to six hours of Independent Study or Readings with consent of the graduate coordinator. Entering students should have a minimum of 12 semester hours in Sociology including Sociology 270, 271, and 275 or demonstrate equivalent competency. Enrollment for such undergraduate courses may be used to remove deficiencies but hours do not count toward the 37 hour minimum for the graduate degree.

Admission Requirements

To be admitted to the Master's program a student must have at least a 2.8 GPA (on a scale in which A equals 4) for the last 60 hours of undergraduate work and submit scores from the General Test and Subject Test of the Graduate Record Examination.

Professional Development Sequence in Social Aspects of Aging

Social Aspects of Aging Sequence is a multidisciplinary program designed to offer a limited number of academically and professionally oriented graduate experiences in aging. The sequence is housed in the Graduate School with advisement provided by the Sociology and Anthropology Department in cooperation with the Departments of: Family and Consumer Sciences, Psychology, and Speech Pathology and Audiology.

Requirements for Admission to the Program: Potential applicants must have earned a bachelor's degree (or equivalent) and meet the requirements for admission to the Graduate School as students-at-large. Credit for courses may be applied to a graduate degree program if approved by a specific graduate program. (See Policy of Graduate School.) Potential applicants may contact the Graduate School or specific department advisers for application forms and further information.

Sequence Requirements: 12 hours required, which includes 1) Seminar in Gerontology (3 hours) to be taken after at least six of the other required hours have been completed, and 2) 9 hours of electives from among the following gerontology related courses:

Required Course (3 hours)

Seminar in Gerontology (SOC 469.08) Advanced treatment of gerontology including approximately one-third in overview of current gerontological issues plus selected topics in gerontology, e.g. Economics of Aging, Cross-Cultural Aspects of Aging, the Future of Aging.

Elective Courses (9 hours)

Health Aspects of Aging (HSC/FCS 394) Characteristics of the aging process and factors influencing adaptation and the quality of living.

Gerontological Psychology (PSY 304) Psychological aspects of developmental transformations occurring during later adulthood. Application of psychology to problems of aging.

Human Communication and the Aging Process (COM 331) An examination of the particular communication needs of the aging and current research in the field.

Families in Later Life (FCS 305) Exploration of family dynamics in later life. Emphasis on developmental tasks, needs, and decision-making issues of aging family members.

Experience in Gerontology: Each student enrolled in the Sequence may negotiate with the Sequence Representative in the sponsoring department credit for 3 hours of "experience" in gerontology. This may include, but is not limited to, 400 Independent Study or 498 Professional Practice in any department/program which is relevant to the Sequence. Each "experience" is expected to involve some focused writing and analysis assignments. This experience should ordinarily be permitted after other courses are completed - at least *Seminar in Gerontology*. If the experience is of a "selected problems" type, a proposal should be approved by the Departmental Sequence Adviser no later than the 5th week of the semester.

Courses in Sociology

311 ISSUES IN GERONTOLOGY 3 sem. hrs.

Advanced treatment of selected subjects in gerontology. Prerequisite: SOC 211, or consent of instructor.

317 SOCIOLOGY OF SPORT 3 sem. hrs.

The social institution of sport is examined using the sociological concepts of social organization, culture, socialization, deviance, social stratification, minority groups, and collective behavior. Also offered as HPR 317. SOC 106 recommended.

332 SMALL GROUPS 3 sem. hrs.

Conditions affecting interaction in small groups, the small group as an ongoing social system. Limited research project. SOC 106 or PSY 131 recommended.

341 SOCIOLOGY OF SEX ROLES 3 sem. hrs.

Application of culture concepts, status, role and self concepts, and socialization concepts toward the explanation of sex differences in social behavior. Institutionalized and social change processes are examined. SOC 106, PSY 111 recommended.

342 ADVANCED HUMAN SEXUALITY 3 sem. hrs.

Analysis of personal, interpersonal, and sociocultural aspects of sexual relationships. Prerequisite: SOC 123 or PSY 123.

350 SOCIOLOGY OF EDUCATION 3 sem. hrs.

Sociological perspective on educational systems. Relationship of the educational system to other institutions, organizational characteristics, and social factors influencing behavior of students.

355 INDUSTRY AND SOCIETY 3 sem. hrs.

Sociological theories are used to understand how technological advancement influences social forces, and produces unique cultural patterns in modern industrial societies. Prerequisite: SOC 255.

365 JUVENILE DELINQUENCY 3 sem. hrs.

Delinquency as a social and legal problem; theories of delinquency, the juvenile court; prevention and treatment. SOC 106 recommended.

366 CONTEMPORARY SOCIAL MOVEMENTS
3 sem. hrs.

Patterns of collective behavior; structure and functions of social movements. Examination of several social movements, analysis of morale, leadership and control. SOC 106 recommended.

367 CRIMINOLOGY
3 sem. hrs.

Criminological theory and practice. Crime as a social and legal problem. The administration of justice.

431 ADVANCED SOCIAL PSYCHOLOGY
3 sem. hrs.

Intensive study of a major sub-area of social psychology. Socialization, social role theory, self theory, collective behavior, attitude formation and measurement.

440 INTERMEDIATE SOCIAL STATISTICS
3 sem. hrs.

Applied course in social statistics, emphasizing the use and interpretation of bivariate and multivariate statistical techniques, such as cross tabulations, multiple regression, and related techniques. Prerequisite: SOC 471.

461 READINGS IN SOCIOLOGY
1-3 sem. hrs.

A course for the graduate student who would benefit from a specialized independent type of study adapted to the student's background and needs. To be taken by permission of the graduate coordinator and the instructor involved.

465 SOCIOLOGY OF FORMAL ORGANIZATIONS
3 sem. hrs.

Analysis of classical organizational models including: Weberian, Classical Management, Human Relations, Decision Making, and Political Process. Focus on environmental, contextual, structural, process, and performance dimensions of organizations. Crosslisted with CJS.

466 SOCIOLOGICAL THEORY
3 sem. hrs.

An analysis of recent theoretical developments in Sociology. Attention will focus on a variety of social theories found useful in explaining social phenomena.

467 SOCIOLOGY OF LAW
3 sem. hrs.

Sociological theories of law, and research on law in society. Attention to judicial and jury decision-making, legal structures, legislation, power, beliefs, conflict, and social change. Public, civil, and criminal law included. Crosslisted with CJS.

469 SEMINAR IN SOCIOLOGY
3 sem. hrs.

May be taken up to three times if topics differ. Advanced graduate study in sociological topics:

- Seminar in Deviance/Criminology
- Seminar in Family/Sex Roles
- Seminar in Minorities/Stratification
- Seminar in Social Institutions
- Seminar in Demography
- Seminar in Gerontology
- Seminar in Interpretive Analysis

471 SOCIOLOGICAL RESEARCH METHODS
3 sem. hrs.

An in-depth exploration of quantitative methods, both data collection techniques and computer analysis, with extensive experience doing social research. Prerequisites: SOC 275 and 271, or equivalent.

472 RESEARCH DESIGN AND ANALYSIS
3 sem. hrs.

Design of research involving theoretical and methodological aspects of sociological problems. Analysis and interpretation of data using the mainframe computer and SPSS. Prerequisite: SOC 471.

473 QUALITATIVE RESEARCH METHODS
3 sem. hrs.

Design and implementation of a qualitative field research study, including obtaining observational and interview data, and analysis and report writing of qualitative data. Prerequisite: Consent of instructor.

491 INTERNSHIP IN COLLEGE TEACHING
3 sem. hrs.

Observation and teaching in the student's major area with other experiences appropriate to academic involvement at the college level. Offered in cooperation with the student's major department. Prerequisite: Graduate standing. Credit for the course is given in C&I (see C&I 491).

499 MASTER'S THESIS
1-6 sem. hrs.

See Index for General Courses.

Courses in Anthropology

306 REGIONAL AND AREA STUDIES
1-9 sem. hrs.

Directed research in any of the sub-disciplines in anthropology.

374 INTRODUCTION TO MUSEUM STUDIES
3 sem. hrs.

Examination of the history, organization, and administration of museums as well as methods of acquisition, preservation, and exhibition of artifacts.

380 KEY CONCEPTS IN ANTHROPOLOGY
3 sem. hrs.

Anthropological thought from historical, systematic, and applied viewpoints; emphasis on changing content, concepts, methods of the discipline. Prerequisites: ANT 180, 181, 182, 274, 281, 285, 286 or consent of instructor.

381 ARCHAEOLOGICAL FIELD SCHOOL
1-9 sem. hrs.

Field instruction in methods and techniques of archaeological survey, excavation, preparation and preservation of materials, and record keeping. Prerequisites: ANT 181 and 274 recommended. Materials charge optional.

383 STUDIES IN SELECTED CULTURES
3 sem. hrs.

Culture patterns of selected areas. Physical characteristics, history, social, political, intellectual life, cultural change of aboriginal people. Prerequisite: ANT 180.

386 METHODS AND THEORY IN ARCHAEOLOGY
3 sem. hrs.

Study of archaeological methods and theory from 1800 to the present, with an emphasis on American archaeology. Prerequisites: ANT 181 and 274, or consent of instructor.

388 HISTORICAL ARCHAEOLOGY
3 sem. hrs.

Research methods of historical archaeology reviewed, and the principles that underlie the methods examined critically. Prerequisite: ANT 274.

SPEECH PATHOLOGY AND AUDIOLOGY (PAS)

Chairperson: Al Bowman. Office: Fairchild Hall 204.

Graduate Faculty: A. Beck, A. Bowman, M. Brunt, M. Howard, J. Hufnagle, L. Hult, M. E. Moore, W. Smoski, J. Tannahill.

The department offers work leading to the M.A. or M.S. degrees with emphasis in speech pathology or audiology. In addition to the requirements of the Graduate School, the candidates for the master's degree with emphasis in speech pathology or in audiology must meet all the academic requirements for the Certificate of Clinical Competence of the American Speech-Language-Hearing Association. Copies of requirements for both Illinois and national certification are available in the departmental office.

Admission Requirements

To be considered for admission to the program as a degree candidate requires an undergraduate grade point average of at least 3.00 computed on the last 60 semester hours of undergraduate work. The Graduate Record Exam is required, as are recommendations and a Student Profile. Forms are available in the department office. Because of a limited number of spaces in the graduate program, admission to the program may be deferred or denied.

Program Requirements

Students must maintain a cumulative grade point average of 3.00 in both major courses and overall to retain their degree candidate status and to be eligible for department practica.

Enrollment by graduate students in the department's practica requires degree candidate status. In all instances, permission of the Clinic Director is needed for practicum enrollment, and enrollments may be restricted. External graduate practica may require special course work and will require a student to provide transportation to external settings arranged by the department.

A candidate for the Master's degree must spend at least one full term in residence in order to qualify for the degree. A full term is interpreted as one semester with a class load of eight or more hours, or a summer session with a class load of six or more hours.

Three program options are available in speech-language pathology, and three program options are available in audiology. Regardless of the option selected, the student must meet the academic and clinical practicum requirements for the Certificate of Clinical Competence (CCC) of the American Speech-Language-Hearing Association (ASHA). In order to meet the clinical practicum requirements for the CCC, the student must be prepared to accept responsibility for completing all clinical assignments necessary for generating the requisite clock hours ASHA has specified in designated clinical categories. The specific requirements for the program options follow:

Speech-Language Pathology

The comprehensive option requires 32 hours of approved graduate-level course work and a passing performance on an eight-hour written comprehensive examination at the end of graduate study. The following courses are required: PAS 401, 412, 413, 415, 418, 419, and 444. One of the following courses must also be completed: PAS 360, 445, 447, 448, 449, 455. In addition, the student must complete the practica necessary to meet the requirements for the Certificate of Clinical Competence.

The thesis option requires 32 hours of approved graduate-level course work and the completion of a Master's Thesis (PAS 499). The following courses are required: PAS 401, 412, 413, and 415. Three of the following must also be completed: PAS 360, 418, 419, 444, 445, 447, 448, 449, 455. In addition, the student must complete the practica necessary to meet the requirements for the Certificate of Clinical Competence.

The 39-hour option requires 39 hours of approved graduate-level course work. The following courses are required: PAS 401, 412, 413, 415, 418, 419, 444, and PAS 400 for at least two semester hours. Three of the following courses must also be completed: PAS 360, 445, 447, 448, 449, 455. In addition, the student must complete the practica necessary to meet the requirements for the Certificate of Clinical Competence.

Audiology

The comprehensive option requires 32 hours of approved graduate-level course work and a passing performance on an eight-hour written comprehensive examination at the end of graduate study. The following courses are required: PAS 401, 450, 452, 453, 455, 456-I, 456-II, and 457. In addition, the student must complete the practica necessary to meet the requirements for the Certificate of Clinical Competence.

The thesis option requires 35 hours of approved graduate-level course work and the completion of a Master's Thesis (PAS 499). The following courses are required: PAS 401, 450, 452, 453, 455, 456-I, 456-II, and 457. In addition, the student must complete the practica necessary to meet the requirements for the Certificate of Clinical Competence.

The 39-hour option requires 39 hours of approved graduate-level course work. The following courses are required: PAS 401, 450, 452, 453, 455, 456-I, 456-II, 457 and PAS 400 for at least two semester hours. In addition, the student must complete the practica necessary to meet the requirements for the Certificate of Clinical Competence.

Professional Development Sequence in Social Aspects of Aging

Social Aspects of Aging Sequence is a multidisciplinary program designed to offer a limited number of academically and professionally oriented graduate experiences in aging. The sequence is housed in the Graduate School with advisement provided by the Speech Pathology and Audiology Department in cooperation with the Departments of: Sociology and Anthropology, Family and Consumer Sciences, and Psychology.

Requirements for Admission to the Program: Potential applicants must have earned a bachelor's degree (or equivalent) and meet the requirements for admission to the Graduate School as students-at-large. Credit for courses may be applied to a graduate degree program if approved by a specific graduate program. (See Policy of Graduate School.) Potential applicants may contact the Graduate School or specific department advisers for application forms and further information.

Sequence Requirements: 12 hours required, which includes 1) Seminar in Gerontology (3 hours) to be taken after at least six of the other required hours have been completed, and 2) 9 hours of electives from among the following gerontology related courses:

Required Course (3 hours)

Seminar in Gerontology (SOC 469.08) Advanced treatment of gerontology including approximately one-third in overview of current gerontological issues plus selected topics in gerontology, e.g. Economics of Aging, Cross-Cultural Aspects of Aging, the Future of Aging.

Elective Courses (9 hours)

Health Aspects of Aging (HSC/FCS 394) Characteristics of the aging process and factors influencing adaptation and the quality of living.

Gerontological Psychology (PSY 304) Psychological aspects of developmental transformations occurring during later adulthood. Application of psychology to problems of aging.

Human Communication and the Aging Process (COM 331)
An examination of the particular communication needs of the aging and current research in the field.

Families in Later Life (FCS 305) Exploration of family dynamics in later life. Emphasis on developmental tasks, needs, and decision-making issues of aging family members.

Experience in Gerontology: Each student enrolled in the Sequence may negotiate with the Sequence Representative in the sponsoring department credit for 3 hours of "experience" in gerontology. This may include, but is not limited to, 400 Independent Study or 498 Professional Practice in any department/program which is relevant to the Sequence. Each "experience" is expected to involve some focused writing and analysis assignments. This experience should ordinarily be permitted after other courses are completed - at least *Seminar in Gerontology*. If the experience is of a "selected problems" type, a proposal should be approved by the Departmental Sequence Adviser no later than the 5th week of the semester.

Courses

301 SPEECH SCIENCE 3 sem. hrs.

Elementary acoustical theory with application to the study of speech production and reception. Speech spectrography. Prerequisite: PAS 272.

310 NEUROBASIS OF SPEECH AND LANGUAGE 3 sem. hrs.

Study of the anatomy and physiology of the central and peripheral nervous systems and their role in the production of speech and the normal comprehension and expression of language. Prerequisite: PAS 272.

316 INTRODUCTION TO ORGANIC DISORDERS OF SPEECH 3 sem. hrs.

Speech disorders related to respiratory-laryngeal and articulatory-resonance systems. Diagnostic and remedial procedures. Prerequisite: PAS 301. Includes clinical experiences 5 hours, Type 1.

318 ORGANIZATION OF SPEECH, HEARING, AND LANGUAGE PROGRAMS 3 sem. hrs.

Professional attitudes, ethics, and organizations. Responsibilities in various professional settings. Program development and maintenance.

319 STUTTERING I 3 sem. hrs.

Theories of etiology, the nature of the disorder, profile of the person who stutters, and an introduction to intervention strategies. Includes clinical experiences 2 hours, Type 1.

320 SPEECH AND LANGUAGE DEVELOPMENT 3 sem. hrs.

Comprehensive study of acquisition of speech and language by children. Emphasis on first six years. Includes clinical experiences 5 hours, Type 1. Prerequisites: PAS 211; 112 or 115, or consent of instructor.

321 LANGUAGE PATHOLOGY 3 sem. hrs.

Introduction to the identification and remediation of language disorders in children and adolescents. Includes clinical experiences 5 hours, Type 1. Prerequisite: PAS 320.

322 INTRODUCTION TO ORGANIC DISORDERS OF SPEECH II 3 sem. hrs.

Speech and language disorders related to neurological pathologies. Diagnostic and remedial procedures. Includes clinical experiences 5 hours, Type 1. Prerequisite: PAS 272.

331 DIAGNOSTIC PROCEDURES IN SPEECH PATHOLOGY 3 sem. hrs.

Test materials and procedures for differential diagnosis of speech and language problems. Includes clinical experiences 5 hours, Type 1. Prerequisite: PAS 315, 321.

349 HEARING SCIENCE 3 sem. hrs.

Introduction to the concepts, theories and terminology required to form an understanding of auditory processing in the normal-hearing individual.

350 INTRODUCTION TO AUDIOLOGY 3 sem. hrs.

Principles of hearing measurement: sound, human ear, test methods, hearing losses, screening methods, test interpretation. Includes clinical experiences 4 hours, Type 1. Prerequisite: PAS 349.

351 INTRODUCTION TO AURAL REHABILITATION TRAINING 3 sem. hrs.

Principles of habilitation/rehabilitation of communicative disorders related to hearing impairment. Visual/auditory speech signals. Amplification: function/use. Includes clinical experiences 4 hours, Type 1. Prerequisite: PAS 350.

360 AUGMENTATIVE COMMUNICATION FOR NON-SPEAKING PERSONS 3 sem. hrs.

Introduction to assessment, intervention strategies, technology and empirical research relative to non-speaking individuals. Includes clinical experiences 5 hours, Type 1. Prerequisites: PAS 316, 322.

401 METHODS OF RESEARCH IN SPEECH PATHOLOGY AND AUDIOLOGY 3 sem. hrs.

Introductory review of research strategy and philosophy in speech pathology and audiology for professionals who will be consumers of research literature.

408.10 BASIC PRACTICUM: AUDIOLOGY DIAGNOSTICS 1/2-1 sem. hr.

Approximately 45 clock hours of supervised clinical practicum. Placement in external practicum sites may be included. May be repeated for maximum of 2 semester hours. Consent of Clinic Director required. Includes clinical experiences 45 hours, Type 7 & 8. Materials charge optional.

408.20 BASIC PRACTICUM: AURAL REHABILITATION 1/2-1 sem. hr.

Approximately 45 clock hours of supervised clinical practicum. Placement in external practicum sites may be included. May be repeated for maximum of 2 semester hours. Consent of Clinic Director required. Includes clinical experiences 45 hours, Type 7 & 8. Materials charge optional.

408.30 ADVANCED PRACTICUM: AUDIOLOGY 1/2-3 sem. hrs.

Approximately 45 clock hours of supervised clinical practicum. Placement in external practicum sites may be included. May be repeated for maximum of 5 semester hours. Consent of Clinic Director required. Materials charge optional.

**408.40BASIC PRACTICUM:
SPEECH-LANGUAGE PATHOLOGY
1/2-1 sem. hr.**

Approximately 45 clock hours of supervised clinical practicum. Placement in external practicum sites may be included. May be repeated for maximum of 2 semester hours. Consent of Clinic Director required. Includes clinical experiences 45 hours, Type 7 & 8. Materials charge optional.

**408.50 ADVANCED PRACTICUM:
SPEECH-LANGUAGE PATHOLOGY
1/2-3 sem. hrs.**

Approximately 45 clock hours of supervised clinical practicum. Placement in external practicum sites may be included. May be repeated for a maximum of 5 semester hours. Consent of Clinic Director required. Includes clinical experiences 45 hours, Type 7 & 8. Materials charge optional.

**412 PHONOLOGICAL DISORDERS
3 sem. hrs.**

Review and synthesis of literature on articulatory phonetics, the acquisition and disruption of phonological processes, and the assessment and remediation of phonological disorders. Prerequisite: PAS 315.

**413 VOICE AND VOICE DISORDERS
3 sem. hrs.**

Review of the physiology of normal voice production and the study of the literature relating to etiologies, diagnosis, and management of voice disorders. Includes Clinical Experiences 4 hours, Type 1. Prerequisite: PAS 316.

**415 LANGUAGE DISORDERS
3 sem. hrs.**

Synthesis of the research literature on language disorders relating to their description, assessment and remediation. Prerequisite: PAS 321.

**418 STUTTERING II
3 sem. hrs.**

Review of the phenomenology of stuttering and study of the literature pertaining to the evaluation and treatment of stuttering in children and adults. Includes clinical experiences 4 hours, Type 1. Prerequisite: PAS 319.

**419 APHASIA
3 sem. hrs.**

Provides the student with knowledge of past and current research and theory on the etiologies and diagnosis of, and therapies for, aphasia in children and adults. Prerequisite: PAS 322.

**444 NEUROPATHOLOGIES OF SPEECH
3 sem. hrs.**

Research and theory on the nature and types of neuropathologies that affect motor speech production. Particular emphasis given to assessment and intervention of dysarthria and apraxia in children and adults. Prerequisite: PAS 322.

**445 OROFACIAL ANOMALIES AND
ASSOCIATED SPEECH DISORDERS
3 sem. hrs.**

Embryological growth and development and the etiologies, diagnostic, and rehabilitative procedures for orofacial anomalies with emphasis on cleft lip and palate. Includes clinical experiences. Prerequisites: PAS 316.

**447 COMMUNICATIVE DISORDERS ASSOCIATED
WITH HEAD AND NECK CANCER
3 sem. hrs.**

The course is designed to give the student insight into the area of cancer of the head and neck and communication difficulties associated with management of the disease. Includes clinical experiences. Prerequisite: PAS 316.

**448 SEMINAR IN SPEECH SCIENCE
2-6 sem. hrs.**

Study of speech production and perception. May be repeated if content varies. Total credit earned cannot exceed 6 semester hours. Prerequisite: PAS 301 or consent of instructor.

**449 SEMINAR IN SPEECH-LANGUAGE PATHOLOGY
2-6 sem. hrs.**

Current topics in speech-language pathology selected by students in consultation with the instructor. May be repeated for a total of 6 sem. hrs. provided topics are not duplicated. Prerequisite: Consent of instructor.

**450 ADVANCED AUDITORY TESTS
3 sem. hrs.**

The rationale, application, and interpretation of advanced testing procedures; evaluation of research in special tests. Prerequisite: PAS 350 and consent of instructor.

**452 AMPLIFICATION FOR THE HEARING
IMPAIRED
3 sem. hrs.**

Hearing Aids: acoustical analysis methods, clinical evaluation procedures, and applications among hearing impaired children and adults. Prerequisite: PAS 351 and consent of instructor.

**453 AUDITORY FUNCTIONS AND DISORDERS
3 sem. hrs.**

Function of the auditory mechanism with reference to theories of hearing; examination of the etiology, loci, and effects of hearing pathology as it affects auditory function in adults. Prerequisite: PAS 350 and consent of instructor.

**455 HEARING DISORDERS IN CHILDREN
3 sem. hrs.**

A review and study of the literature in audiology and otology of the etiology, loci, and effects of pathology in the auditory system of children. Prerequisite: PAS 351 and consent of instructor.

**456 SEMINAR IN AUDIOLOGY
2-6 sem. hrs.**

Specific topics selected by the student with approval of the instructor, or assigned topics will be explored. In general, library sources will be employed; however, some experimental procedures may be approved. The student may repeat the seminar for credit provided that the subject matter is not duplicated and the total credit earned does not exceed six semester hours. Prerequisite: PAS 350 and consent of instructor.

**457 AUDIOLOGIC HABILITATION
AND REHABILITATION
3 sem. hrs.**

Study of the clinical management of communication disorders arising from hearing impairment with emphasis on hearing aid management, research literature, and recent trends. Prerequisite: PAS 351 and consent of instructor.

**499 MASTER'S THESIS
1-6 sem. hrs.**

Students who register for one or more hours of PAS 499 are required to attend thesis seminar.

ZOOLOGY (See Biological Sciences)

COLLEGE OF BUSINESS

Dean: Dixie Mills. Office: 316 Williams Hall.

The College of Business contains the departments of Accounting, Business Education and Administrative Services, Finance, Insurance and Law, Management and Quantitative Methods, and Marketing. The primary objective of the College of Business is to prepare undergraduate and graduate students for professional or managerial careers in business, education, government, industry, or not-for-profit organizations. The College supports the principle that education for these careers requires the assimilation of a basic common body of knowledge as well as opportunities for acquiring depth in appropriate fields. The College offers graduate programs leading to the Master of Science in Accounting and Master of Business Administration. The College of Business faculty are involved in research, public service, and faculty professional development and maintain relationships with business, industrial and service organizations in the area. All eligible programs in the College of Business are accredited by the American Assembly of Collegiate Schools of Business (AACSB).

Master of Business Administration

Acting MBA Program Director: Tim Longfellow. Office: 322 Williams Hall.

The Master of Business Administration (MBA) degree is a collegiate degree with courses offered in the departments of Accounting, Business Education and Administrative Services, Finance, Insurance and Law, Management and Quantitative Methods, and Marketing. The goal of the Illinois State MBA program is to prepare students for successful careers in positions of leadership in business and other organizations competing in domestic and international markets. The integrative curriculum is designed to provide a thorough understanding of the functional areas of business, to ensure that students develop an analytical framework for evaluation and decision making, to encourage them to apply that framework with a sense of integrity, and to strengthen interpersonal, leadership, and communication skills. The program strives to imbue graduates with an appreciation of the continuing challenges of globalization, of the legal and sociopolitical environments, and of expanding technology. The Illinois State MBA prepares graduates to manage these future challenges and opportunities successfully.

Admission to the MBA Program

All University and Graduate School requirements for admission to a degree program apply, but the requirements for admission to the Master of Business Administration program are higher than those for the Graduate School. To be considered for admission, students must have earned a GPA of 2.75 or higher in the last 60 hours of undergraduate work. In addition to submitting a Graduate School application and official transcripts, all applicants must: 1) complete the MBA application; 2) have two letters of recommendation forwarded to the department; and 3) have an official Graduate Management Admission Test (GMAT) score submitted to the Admissions Office. International students must also submit an official TOEFL score report to the Admissions Office; a score of 600 or higher is required for admission to the program. Applicants will be evaluated by a review of overall qualifications as reflected in these credentials.

All of the 400-level courses in the College of Business have restricted enrollments and are not open to students-at-large. Opportunities for students-at-large to take undergraduate business courses are limited, and permission to register must be sought from the undergraduate Advising Center (301 Williams Hall). Such students may be required to furnish official transcripts which show the degree earned and the prerequisites for the courses in which the student is requesting permission to enroll.

Students may be admitted to the MBA program at any time during the academic year, but preference is given to student applications received by March 15 for August admission, by November 1 for January admission, and by March 1 for summer admission. Students seeking graduate assistantship appointments for the Fall term should have completed applications for admission and for the assistantship on file no later than **March 15**. New graduate assistantship appointments for the Spring semester are rare; no appointments are made during the Summer session.

Curriculum Requirements

The MBA degree assumes an undergraduate knowledge base in business and economics which students with undergraduate degrees in business will normally have acquired. Students with non-business undergraduate degrees may have to complete foundation courses before enrolling in the MBA core courses. Specific requirements will be determined by the Director of Graduate Programs. The responsibility for demonstrating prior academic coverage of the material, at the appropriate level, rests with the student, and should be completed during the first semester of course work. Students with a non-business undergraduate degree should expect to complete some or all of the following **foundation courses**:

- ECO 401 Survey of Economic Principles
- ACC 401 Survey of Accounting Principles
- MQM 402 Management Fundamentals
- MKT 403 Marketing Concepts
- MQM 406 Quantitative Methods (prerequisite: MAT 104 or equivalent)
- MQM 407 Production and Operations Management (prerequisite: MQM 406 or equivalent)
- FIL 404 Theory of Managerial Finance (prerequisite: ACC 401 or equivalent)

In addition to any foundation courses required based on an individual's previous academic work, all MBA candidates must complete 39 semester hours comprised of core and elective courses. This includes the following ten required **core courses** (30 semester hours):

- ACC 450 Management Accounting (Prerequisite: ACC 401 or 6 hours of accounting)
- ACC 468 Management Information Systems: Organizational and Technological Issues (Prerequisite: ACC 166 or demonstrated competency in microcomputer tools)
- ECO 404 Economic Analysis for Business Decisions (Prerequisites: ECO 401 and MQM 406 or equivalents)
- FIL 410 Legal Aspects of Business Decisions
- FIL 440 Financial Management (Prerequisites: MQM 406 and FIL 404 or equivalents)
- MKT 430 Advanced Marketing Management (Prerequisites: MKT 403 and MQM 406 or equivalents)
- MQM 415 Advanced Quantitative Methods (Prerequisite: MQM 407 or equivalent)

MQM 421 Analysis of Organizational Behavior (Prerequisite: MQM 402 or equivalent)
MQM 485 Business Problems and Policy (Prerequisites: MQM 415 and 421, MKT 430 and FIL 440)
MQM 497 Research Methodology (Prerequisite: MQM 406).
This course must be completed within the first eighteen hours of the core courses.

In addition to the core courses, each candidate must complete nine (9) semester hours of 400-level graduate business elective courses. (Graduate courses at the 300-level may not be taken to fulfill the MBA elective requirements). In consultation with the MBA Advisor, students are able to choose from among a wide offering of elective courses to design a plan of study. The choice should be congruent with each student's goals. Several elective concentrations are available for the student with a specific career focus. These include: Financial Management; Insurance; International Business; Marketing; Management: Policy and Organization; and Agribusiness.

Students without relevant full-time experience are encouraged to consider a professional practice internship as an elective choice; up to 3 credit hours of professional practice courses (498 in the FIL, MKT, and MQM departments) may be used in the Plan of Study toward the degree. A thesis may be substituted for up to six hours of elective course work. Please refer to the thesis section elsewhere in the catalog for Graduate School policies on thesis work.

Course Limitations

Master of Business Administration candidates may not include the following in their Plan of Study to meet the 39 semester hours required for the MBA: ECO 401; MKT 403; MQM 402, 406, and 407; FIL 404, ACC 401; more than three (3) credits earned in any 498 course(s); and 300-level graduate courses. All core and elective courses must be completed within six years.

Courses

Descriptions of courses leading to the MBA degree are found under the Departments of Finance, Insurance and Law, Management and Quantitative Methods, Marketing, and Accounting.

Repetition of Courses in the MBA Program

A student may register officially for an MBA course (foundation, core or elective) only twice. A student who completes a course or drops a course after the tenth day enrollment report may officially enroll in the same course only one additional time.

ACCOUNTING (ACC)

Chairperson: James Moon. Office: Stevenson Hall 435A.
Director of Graduate Studies: Eugene Rozanski
Graduate Faculty: G. Ames, C. Craig, W. Duffy, G. Fish, L. Lammers, L. Leinicke, D. Love, M. McClure, J. Moon, J. Ostrosky, D. Patten, K. Razaki, M. Rexroad, E. Rozanski.

Master of Science in Accounting

The mission of the Department of Accounting is to provide high quality educational programs to students preparing for professional careers in accounting and business information systems, to support research and other scholarly activities consistent with these programs, and to establish mutually productive relationships with outside organizations through service activities. This mission includes providing service courses in the accounting and business information systems areas to students within the College, the University, and the Community.

The primary objective of the Master of Science in accounting program is to provide candidates preparing for professional careers in accounting a greater breadth and depth in accounting education than is possible in a baccalaureate or Master of Business Administration program.

The Master of Science in accounting degree builds upon the broad framework of the undergraduate degree in accounting. Graduate accounting courses emphasize study of current accounting literature, critical thinking, case studies, accounting theory, and written and oral communication. Class sizes are designed to be small to encourage interaction between the professor and each student.

The Master of Science in accounting provides a broad base in advanced accounting theory, current accounting research, and management information systems. Beyond this base the student is allowed to tailor course work in accounting, business, and behavioral science to meet his/her educational and professional goals. Under the guidance of the program director, the student may develop a program to prepare for an accounting career in public accounting, industry or government.

Admission Requirements

All University and Graduate School requirements for admission to a degree program of the Graduate School at Illinois State University will apply. Graduate students who have been admitted to the University will be admitted to the Master of Science in accounting degree program based upon their performance on the Graduate Management Admission Test (GMAT), on their previous academic performance, and other evidence of the student's ability to successfully complete the program.

Before entering the program students will normally have had a Bachelor of Science in accounting degree based upon the study of the Financial Accounting Standards Board's pronouncements, the AICPA Statement on Auditing Standards and the Internal Revenue Code. Otherwise, there may be deficiencies as determined by the department.

International students are required to submit a TOEFL score of 600 or more with their application for admission.

Curriculum Requirements

All candidates must complete 33 semester hours and a comprehensive examination administered near the end of the final semester of course study.

Required Courses

ACC 430 Financial Accounting Theory.....	3 sem. hrs.
ACC 468 Management Information Systems: Organizational and Technological Issues	3 sem. hrs.
ACC 497 Introduction to Research Methodology in Accounting	3 sem. hrs.
400-Level Accounting Electives chosen from ACC 431, 434, 435 and 439	6 sem. hrs.
Total	15 sem. hrs.

Elective Courses

Accounting: 300 or 400 level courses	3-12 sem. hrs.
BEA, FIL, MQM or MKT: 300 or 400 level	3-12 sem. hrs.
Behavioral Science: 300-400 level	3-6 sem. hrs.
Total	18 sem. hrs.

All 300-level courses must be approved in advance by the department. A minimum of 18 semester hours must be taken at the 400 level and a minimum of 9 semester hours must be taken outside the accounting discipline.

Repetition of Courses in the Master of Science in Accounting Program

A student can register officially for any undergraduate deficiency or graduate level course only twice. That is, if a student completes a course, or drops a course after the tenth-day enrollment report, he or she may officially enroll in the same course only one additional time.

Courses

Normally, the following courses will not count toward an M.S. in accounting: ACC 401 and 450.

330 ACCOUNTING FOR NON-PROFIT ENTITIES 3 sem. hrs.

Examination of accounting and financial reporting principles for nonprofit entities including state and local governmental units, colleges, hospitals, and other nonprofit organizations. Prerequisites: ACC majors only. ACC 231 with a minimum grade of C.

332 ADVANCED MANAGERIAL ACCOUNTING 3 sem. hrs.

A study of advanced decision models for managerial planning and control. Topics covered include cost behavior and regression analysis, transfer pricing, operations research techniques, accounting systems and internal control. Behavioral and ethical concepts in management accounting are examined. Prerequisites: ACC majors only. ACC 230 with a minimum grade of C.

334 ADVANCED TAX 3 sem. hrs.

Study of concepts and issues associated with corporate, partnership, estate and gift taxation. Overview of tax research techniques also provided. Prerequisites: ACC 233 or consent of department chairperson.

336 ADVANCED AUDITING 3 sem. hrs.

In-depth analysis of selected advanced topics in auditing, including professional auditing standards, planning, evidence, internal control, statistical sampling, EDP auditing, reporting, integrative audit case, operational auditing. Prerequisite: ACC 235. ACC majors only.

337 ADVANCED FINANCIAL ACCOUNTING 3 sem. hrs.

A study of advanced accounting topics with specific emphasis on business combinations and consolidated financial statements. Other topics include partnership accounting, international operations, branch accounting, segment reporting and interim statements. Prerequisite: ACC 232. ACC majors only.

340 INTERNATIONAL ACCOUNTING 3 sem. hrs.

Examines (1) similarities and differences of accounting principles and procedures between the United States and other countries and efforts at standardizing accounting internationally, and (2) accounting for multinational entities, including consolidation of foreign subsidiaries, evaluation of investment projects, and performance evaluation of foreign operations. Prerequisite: ACC 132.

362 ADVANCED BUSINESS SYSTEMS ANALYSIS 3 sem. hrs.

The analysis, design, development, and implementation of a complete business information system. Directed project approach with formal presentations at the conclusion of each project phase. Prerequisites: ACC 261 and 366.

366 ADVANCED BUSINESS DATA PROCESSING 3 sem. hrs.

Advanced study in the development of computer programs and processing techniques required for business information systems. Systems of programs are developed for both mainframe and microcomputer applications. Prerequisites: ACC 266 or ACS 272. Not for credit if had ACS 372.

370 MANAGEMENT INFORMATION SYSTEMS 3 sem. hrs.

Management information systems with emphasis on the responsibilities of management in the creation, control, and utilization of the information systems which support managerial decision-making. Prerequisites: MQM 220, ACC 131, 166, MKT 230 and FIL 240. ACC 261 or equivalent strongly recommended.

375 PROFESSIONAL PROBLEMS 3 sem. hrs.

An intensive study of contemporary accounting problems with a strong orientation toward the preparation for the CPA and CMA examinations. Prerequisites: 24 hours of ACC. ACC 330, 334, 336, 337 or consent of department chairperson. Concurrent enrollment allowed for only two of ACC 330, 334, or 336. Overall GPA of 2.8. Concurrent enrollment in FIL 375 recommended.

401 SURVEY OF ACCOUNTING PRINCIPLES 3 sem. hrs.

This course compresses into a single semester material ordinarily covered in the first two semesters of elementary accounting. Enrollment is limited to graduate students who have had no more than one semester of previous study in accounting. The course cannot be presented for graduate credit by a degree candidate in the ACC or MBA graduate programs.

430 FINANCIAL ACCOUNTING THEORY 3 sem. hrs.

This course is a study of the theoretical and conceptual foundations of financial reporting standards, including an overview of the development of financial accounting and the environment in which it operates. Current accounting practices are analyzed and evaluated in the context of the theoretical framework. Prerequisite: 18 semester hours of accounting including ACC 232.

431 CURRENT ISSUES IN ACCOUNTING 3 sem. hrs.

A variable content course giving consideration to current issues and/or controversies in the theory and practice of accounting. Students will investigate independently and as a group problems of special interest in various aspects of accounting. Prerequisite: 18 semester hours of accounting including ACC 232.

434 FEDERAL TAXES AND MANAGEMENT DECISIONS 3 sem. hrs.

Study of tax issues associated with common business transactions, from a management perspective. Prerequisites: 18 semester hours of accounting or ACC 450 and FIL 440.

435 AUDITING ISSUES AND CASES 3 sem. hrs.

Application of current auditing standards to auditing cases emphasizing decision making under uncertainty and effective communication skills. Consideration is given to ethical issues facing accountants, current auditing theory, application of current accounting standards to auditing cases, international accounting standards, international auditing guidelines and statements, and current issues related to the practice of auditing. Prerequisite: 18 semester hours of accounting including ACC 232 and 235.

439 MANAGERIAL ACCOUNTING THEORY**3 sem. hrs.**

In-depth investigation of theories that underlie current managerial accounting practice. Heavy emphasis on the impact of research on the development of modern cost techniques. Prerequisite: 18 semester hours of accounting including ACC 230, or equivalent.

450 MANAGEMENT ACCOUNTING**3 sem. hrs.**

Designed for non-accounting majors. Emphasis on the interpretation and use of accounting data. Prerequisite: ACC 401 or 6 hours of accounting or consent of department chairperson.

468 MANAGEMENT INFORMATION SYSTEMS: ORGANIZATIONAL AND TECHNOLOGICAL ISSUES**3 sem. hrs.**

Analyzes business information systems components (people, procedures, hardware, software) from organizational and technological perspectives. Cases are used to explore the relationships between organizational and technological issues. Prerequisites: ACC 166, demonstrated competency in microcomputer tools or consent of department chairperson.

497 INTRODUCTION TO RESEARCH METHODOLOGY IN ACCOUNTING**3 sem. hrs.**

Examines (1) the methods of conducting theoretical research currently in use in accounting, with particular emphasis on empirical research, (2) the methods of conducting practical research in accounting, and (3) reporting the results of research. Prerequisites: 18 sem. hrs. of ACC including ACC 232 and BEA 240 or its equivalent, or consent of department chairperson.

498 PROFESSIONAL PRACTICE: INTERNSHIP IN ACCOUNTING**1-3 sem. hrs.**

On-the-job professional accounting or BIS experience with a sponsoring commercial firm or government organization. Prerequisite: Cumulative GPA of 3.2; 21 hours of ACC; consent of internship director.

BUSINESS EDUCATION AND ADMINISTRATIVE SERVICES (BEA)

Acting Chairperson: Stephen Goodwin. Office: Williams Hall 327.

Graduate Faculty: P. Grogg, T. Haynes, T. Palmer, P. Pomerence, I. Varner.

Note: Graduate degrees are not granted in the Department of Business Education and Administrative Services, but course work is available as supplemental study or as electives.

General Administrative Endorsement With Emphasis in Vocational Education

A career option leading to general administrative endorsement with emphasis in vocational education is offered in cooperation with the Department of Educational Administration and Foundations through the Departments of Agriculture, Business Education and Administrative Services, Family and Consumer Sciences, and Industrial Technology. Students interested in the vocational emphasis should (a) see department chairperson or appropriate adviser and (b) file an Intent to File for

Certification form in the Office of Clinical Experiences and Certification Processes. All students who plan to receive certification for the State of Illinois via an approved Illinois State program must file official forms and follow specific procedures. Certification is not given automatically at the completion of specific course work or a degree program.

Courses

330 DECISION-MAKING FOR CONSUMERS**3 sem. hrs.**

Survey of consumer problems, trends, and information. Topics include: insurance, housing, credit, life-styles, consumer protection, leisure, and achieving financial security. Also offered as FCS 330.

341 PRACTICUM IN BUSINESS COMMUNICATIONS**3 sem. hrs.**

Analysis of communications unique to professional employment. Emphasis on research and writing skills for effective communication. Prerequisite: BEA 240 or consent of instructor.

345 BUSINESS IN A MULTI-CULTURAL ENVIRONMENT**3 sem. hrs.**

Business operations in a multi-cultural environment. Relationship between the business process and social attitudes, values, ideologies, and customs with special emphasis on Asia, Latin America, and the Middle East.

360 TOPICS IN STRATEGIES OF TEACHING BUSINESS EDUCATION SUBJECTS**2 sem. hrs.**

Methods of teaching business education subjects including typewriting/keyboarding, basic business, consumer economics, accounting, marketing education, word processing and current topics. May be repeated if content different. Clinical experiences required 12 hours, Type 1-6, 9.

362 BASIC BUSINESS, ACCOUNTING AND MARKETING INSTRUCTION**3 sem. hrs.**

Methods of teaching basic business, consumer economics, accounting and marketing. Prerequisites: BEA 260; BEA 291 or concurrent registration. Includes clinical experiences 12 hours, Type 1-6, 9.

363 KEYBOARDING, INFORMATION PROCESSING AND COMPUTER APPLICATIONS**3 sem. hrs.**

Instructional strategies in the teaching of personal and vocational keyboarding and computer applications at the junior high and high school levels. Prerequisites: ACC 166; BEA 225, 260, 291. Includes clinical experiences 12 hours, Type 1-6, 9.

364 TEACHING KEYBOARDING, AND INFORMATION PROCESSING IN ELEMENTARY SCHOOLS**1 sem. hrs.**

Methods of teaching keyboarding, information processing for elementary students. Prerequisites: BEA 225, 363, or concurrent registration. Includes clinical experiences 5 hours, Type 1-6, 9.

371 TEACHING BUSINESS TOPICS TO ADULT LEARNERS**3 sem. hrs.**

Learning theory applied to development of education and training programs for adults in and for business.

372 EDUCATIONAL MATERIALS FOR ADULT LEARNERS IN BUSINESS
3 sem. hrs.

Identification, development, evaluation and selection of training materials for teaching business topics to adults.

380 ORGANIZATION AND ADMINISTRATION OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS
3 sem. hrs.

Planning and organizing a cooperative program; emphasis on recruitment, selection of training stations, student placement, and implementation of cooperative plan. Clinical experiences required 5 hours, Type 1-6, 9. Also offered as FCS 380.

381 DIRECTED OCCUPATIONAL EXPERIENCE FOR VOCATIONAL BUSINESS AND OFFICE, AND MARKETING EDUCATION
3 sem. hrs.

Designed to provide approved on-the-job experience for credit toward the occupational experience required of vocational business and office, and marketing education teachers.

382 COORDINATION TECHNIQUES OF COOPERATIVE VOCATIONAL EDUCATION PROGRAMS
3 sem. hrs.

Coordination techniques needed for high school and post-secondary teacher coordinators in integrating classroom activities with daily employment. Clinical experiences required 5 hours, Type 1-6, 9. Also offered as FCS 382 and IT 306.

401 ISSUES AND TRENDS IN BUSINESS EDUCATION
3 sem. hrs.

An investigative study of the historical development, current status, and philosophy of secondary, post-secondary, and adult business education programs.

416 ADVANCED MANAGERIAL BUSINESS COMMUNICATION
3 sem. hrs.

Written communications to business organizations, the impact of political climates, ethical considerations on effective external and internal reports, study of critical thinking and logic in writing business reports. Materials charge optional.

420 SEMINAR IN BUSINESS EDUCATION
2-3 sem. hrs.

Consideration of business education problems of greatest concern to the group and to the individual students by means of class discussions, presentation of position papers and research findings, group discussions, and individual conferences. May be repeated once for credit with consent of department chairperson.

485 VOCATIONAL DIRECTORSHIP I
3 sem. hrs.

Development of knowledge and competencies in planning and organizing vocational education programs. Prerequisite: Consent of department chairperson or graduate adviser.

Description and requirements for the Master of Business Administration degree are listed under the College of Business.

Courses

311 GOVERNMENT REGULATION OF BUSINESS
3 sem. hrs.

Analysis of governmental legal and regulatory activity as it applies to business. Prerequisites: FIL 208.

312 INTERNATIONAL BUSINESS LAW
3 sem. hrs.

Case study in international business law. Jurisdiction and application of foreign law, international regulation of economic activities, and issues of comparative law. Prerequisite: FIL 208.

340 SHORT-TERM FINANCIAL MANAGEMENT
3 sem. hrs.

Analysis of working capital management; cash budgeting; financial analysis and planning; short-term financing decisions. Prerequisite: FIL 240 or equivalent.

343 SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT
3 sem. hrs.

Characteristics of financial assets and markets; evaluation of securities; selecting and combining securities into portfolios; portfolio models and measurement of portfolio performance. Prerequisite: FIL 240 or equivalent, 242. BUS majors only.

344 INTERNATIONAL FINANCIAL MANAGEMENT
3 sem. hrs.

Financial management of multinational corporations, including balance of payments, foreign exchange markets and international money and capital markets. Prerequisite: FIL 240 or equivalent. BUS majors only.

357 REAL ESTATE APPRAISAL
3 sem. hrs.

Recent and traditional appraisal techniques. Theory and methodology of market value determination for residential and commercial real estate. Prerequisites: FIL 260. Business majors only.

360 REAL ESTATE INVESTMENT AND FINANCE
3 sem. hrs.

Decision-making analysis in real estate investment and financing. Emphasis on financial leverage, cash flow analysis, taxation, risk and mortgages. Prerequisite: FIL 240 and 260 or consent of instructor.

380 SEMINAR IN THE LEGAL ENVIRONMENT OF BUSINESS
3 sem. hrs.

Selected topics in law and its relationship to business. Topics may include new developments in public and private law as it relates to business. May be repeated for credit with consent of instructor. Consent of department chair required.

404 THEORY OF MANAGERIAL FINANCE
3 sem. hrs.

This course compresses into a single semester materials that ordinarily would require two semesters of undergraduate course work in business finance and financial markets. It includes financial theory of the firm including the economic and institutional environment, working capital management, sources and uses of funds, capital structure, and budgeting. Prerequisites: ACC 401 or equivalent; admission to a graduate business program. The course cannot be taken for credit in the ACC or MBA graduate programs.

FINANCE, INSURANCE AND LAW (FIL)

Chairperson: Charles McGuire. Office: Williams Hall 328.

Graduate Faculty: S. Chang, K. Crepas, G. Flanigan, E. Gilbert, T. Howe, H. Kang, D. Kruse, D. Loy, C. McGuire, D. Mills, G. Naidu, R. Potter, W. Scott, J. Solberg, C. Varner.

**410 LEGAL ASPECTS OF
BUSINESS DECISIONS**
3 sem. hrs.

An overview of the legal environment affecting business decisions as well as an analysis of the social, ethical and political influences impacting business organizations.

**419 SEMINAR IN THE LEGAL ENVIRONMENT
OF BUSINESS**
1-4 sem hrs.

Topics may include aspects of domestic and international business law and the social, ethical, political and regulatory influences impacting business organizations. May be repeated if different material is covered. Prerequisite: FIL 410.

440 FINANCIAL MANAGEMENT
3 sem. hrs.

Analysis of financial problems of business enterprises and the formulation of financial policies. Financing of current operations and long-term capital needs, income management and expansion policies. Includes case studies. Prerequisites: MQM 406, FIL 404 or equivalents.

**441 ADVANCED FINANCIAL INSTITUTIONS
AND MARKETS**
3 sem. hrs.

A critical study of sources of funds and investment management of these funds; scope and changes in financial markets; recent policy changes and problems in financial management of financial institutions; changes being proposed in regulations affecting structure and functions of the intermediaries and the nature of financial markets. Prerequisite: FIL 440.

442 INVESTMENT MANAGEMENT
3 sem. hrs.

A strategic and operational study of investments from an analytical perspective including the planning, direction, and evaluation of investment programs. Prerequisite: FIL 440.

449 SEMINAR IN FINANCE
1-4 sem. hrs.

Topics will vary with needs and interests of students and faculty. May be taken more than once if different material is covered. Offered once per year. Prerequisite: FIL 440.

454 SEMINAR IN INSURANCE
1-4 sem. hrs.

Topics may include risk management, commercial and individual property and liability insurance, life and health insurance, financial and estate planning and new developments. May be repeated if different material is covered. Prerequisite: FIL 440 or consent of instructor.

499 MASTER'S THESIS
1-6 sem. hrs.

MANAGEMENT AND QUANTITATIVE METHODS (MQM)

Chairperson: Warren R. Nielsen. Office: 329 Williams Hall.
Graduate Faculty: S. Chitgopekar, V. Devinatz, M. Dumler, F. Fazel-Sarjui, D. Fitzgibbons, C. Graeff, L. Graf, M. Hemmasi, J. Lust, K. Newgren, W. Nielsen, R. Radhakrishnan, R. Ringer, D. Robinson, J. Ross, G. Salegna, S. Stewart-Belle, M. Winchell.

Description and requirements for the Master of Business Administration degree are listed under the College of Business.

Courses

300 INTERMEDIATE BUSINESS STATISTICS
3 sem. hrs.

Techniques used in modern business analysis. Topics include multiple regression and analysis of variance for applications in management, marketing, finance and accounting. Prerequisite: MQM 100, MAT 121 or equivalent.

323 HUMAN RESOURCES MANAGEMENT
3 sem. hrs.

Principles and procedures relating to human resource management, including staffing, appraisal, training, compensation, and other programs for business and other organizations. Prerequisite: MQM 220.

324 INDUSTRIAL RELATIONS MANAGEMENT
3 sem. hrs.

Managing employment relations and work conditions. Emphasis on negotiating, administering labor agreements, and impact of collective bargaining on managerial practice. Prerequisites: MQM 220, ECO 100.

**353 STRATEGIC HUMAN RESOURCE PLANNING
AND MANAGEMENT**
3 sem. hrs.

Strategic human resource planning as the base for organizational human resource decisions and programs, and management of personnel development in organizations. Prerequisite: MQM 323.

354 COMPENSATION MANAGEMENT
3 sem. hrs.

Compensation subsystem as a vital component in establishing a workplace system that stimulates employee performance. Prerequisite: MQM 323.

**384 MANAGERIAL PLANNING AND
DECISION MAKING**
3 sem. hrs.

A consideration of managerial decision making in organizations. Specific emphasis on strategic, program, and operational level planning decisions, techniques, and systems. Prerequisites: MQM 220 and three (3) additional hours of management. BUS majors only. Formerly MQM 325.

402 MANAGEMENT FUNDAMENTALS
3 sem. hrs.

This course compresses into a single semester materials that would ordinarily require two semesters of undergraduate course work in management and organizational behavior. Principles of management and organization theories with emphasis on organization structures, management functions, behavior, and interpersonal communications. Prerequisite: Admission to a graduate business program. Cannot be presented for credit in the ACC or MBA graduate programs.

406 QUANTITATIVE METHODS
3 sem. hrs.

This course compresses into a single semester materials that would ordinarily require two semesters of undergraduate course work in business statistics and management science areas. It includes concepts and techniques of quantitative (particularly statistical) methods useful for guiding business decisions and evaluating sample data. Prerequisites: MAT 104 or equivalent; admission to a graduate business program. Cannot be presented for credit in the ACC or MBA graduate programs.

**407 PRODUCTION AND OPERATIONS
MANAGEMENT**
3 sem. hrs.

This course compresses into a single semester materials that ordinarily would require two semesters of undergraduate course work in the production and operations management areas. It includes concepts, tools, and techniques involved in the planning and control of production processes. Prerequisites: MQM 406 or equivalent; admission to a graduate business program. Cannot be presented for credit in the ACC or MBA graduate programs.

415 ADVANCED QUANTITATIVE METHODS
3 sem. hrs.

A study of the quantitative model building approach to managerial decisions. Topics include mathematical programming, network analysis, decision making under uncertainty, and waiting line analysis. Emphasis is placed on problem recognition and interpretation of solutions. Prerequisite: MQM 407 or equivalent.

420 ORGANIZATION THEORY
3 sem. hrs.

Organization theory and design with emphasis on environmental, technological, power, contextual, and internal variables affecting organizational design and performance. Prerequisite: MQM 402 or equivalent.

**421 ANALYSIS OF ORGANIZATIONAL
BEHAVIOR**
3 sem. hrs.

A study of how people in organizations respond to managerial and organizational practices, using a systems orientation to analyze how environmental factors influence organizational practices and climate. Topics include reactions of people to structure and control, problems of motivation and performance, resolution of inter-departmental conflicts, adaptation to change. Prerequisite: MQM 402 or equivalent.

**423 ADVANCED HUMAN RESOURCES
MANAGEMENT**
3 sem. hrs.

Advanced study of selected contemporary issues in human resources management. Emphasis on critical investigation of current personnel research and practices. Prerequisite: MQM 421.

426 SEMINAR IN MANAGEMENT
3 sem. hrs.

Significant issues related to the management of people as well as management functions or processes. Topics include: behavioral science and management, employee motivation, leadership, organizational communication, interorganizational conflict, organization development, change, planning, objectives, control, values, ethics, social responsibility, and human resource management. May be taken more than once if different material is covered. Offered irregularly. Prerequisite: MQM 421.

485 BUSINESS PROBLEMS AND POLICY
3 sem. hrs.

An integrating course analyzing the firm in its environment with emphasis on formulation of policies and strategies and application of concepts through case studies and/or simulation exercises integrating all functional areas. Prerequisites: MQM 415 and 421; MKT 430, and FIL 440.

497 RESEARCH METHODOLOGY
3 sem. hrs.

The procedure, techniques, and application of research methods in business. Problem analysis, measurement techniques, experimental design considerations, and report presentation. Analytical methods, including classical hypothesis testing, nonparametric tests, analysis of variance, linear and multiple regression, and multivariate statistics. Prerequisites: MQM 406 with a grade of B or better within one year or proficiency examination in statistics.

**498 PROFESSIONAL PRACTICE:
INTERNSHIP/COOPERATIVE
EDUCATION IN MANAGEMENT
OR QUANTITATIVE METHODS**
1-3 sem. hrs.

Practical experience by employment in a position involved with the management of business activities, including the analysis of business decision situations. Prerequisite: MBA majors with 12 credits or more of core courses; cumulative graduate GPA of 3.2 or higher; consent of department chairperson.

499 MASTERS THESIS
1-6 sem. hrs.

MARKETING (MKT)

Chairperson: Stephen Goodwin. Office: 325 Williams Hall.
Graduate Faculty: J. Attaway, K. Celuch, J. Cox, Jr., S. Goodwin, J. Grimm, M. Humphreys, W. Lesch, T. Longfellow, L. Showers, R. Singley, M. Slama, S. Taylor, M. Williams.

Description and requirements for the Master of Business Administration degree are listed under the College of Business.

Courses

329 PURCHASING POLICIES AND PROCEDURES
3 sem. hrs.

Purchase of materials, supplies, and equipment for industry, government, and other institutions. Organization for purchasing, internal requisitioning, and stock control. Significant case analysis is typical. Prerequisites: MKT 230.

333 ADVERTISING MANAGEMENT
3 sem. hrs.

Evaluation of elements for the effective development, implementation, and management of advertising campaigns. Experience in making decisions will be gained via cases, campaign development exercises, and/or computer simulation. Prerequisites: MKT 230, 231, 232, 233, or equivalent.

334 SALES MANAGEMENT
3 sem. hrs.

Theory, principles, and practices of sales force administration for manufacturing, wholesaling, and service enterprises. Topics include recruiting, training, compensation, and performance appraisal. Prerequisite: MKT 230, 234.

**335 RETAILING MANAGEMENT AND
PROMOTION**
3 sem. hrs.

Management and operation of retail firms. Emphasis on location analysis, pricing, inventory control, and promotion. Experiential assignments are typical. Prerequisite: MKT 230.

337 BUSINESS-TO-BUSINESS MARKETING**3 sem. hrs.**

Focuses upon the scope and nature of marketing in an industrial or business-to-business context. A managerial decision making framework is utilized. Prerequisites: MKT 230, 231, 232.

338 STRATEGIC MARKETING MANAGEMENT**3 sem. hrs.**

Development, implementation, evaluation, and control of the marketing plan. Short- and long-run perspectives are considered equally important. Includes analysis of actual and hypothetical cases. Prerequisites: MKT 230, 231, 232.

339 SEMINAR IN MARKETING**3 sem. hrs.**

A specialized study of important narrow areas in the field of marketing for advanced students. Prerequisites: MKT 230, 231, 232 or consent of department chairperson. May be repeated once if a different topic and different instructor.

403 MARKETING CONCEPTS**3 sem. hrs.**

This course compresses into a single semester materials that ordinarily would require two semesters of undergraduate course work in principles of marketing and marketing management. The marketing function from the points of view of the consumer, business, and society (for students without previous marketing course work). Prerequisite: Admission to a graduate business program, or consent of department chairperson. Cannot be presented for credit in the ACC or MBA graduate programs.

430 ADVANCED MARKETING MANAGEMENT**3 sem. hrs.**

Marketing principles, behavioral concepts, and quantitative techniques utilized in analyzing marketing problems and decisions. Emphasis on strategic and quantitative aspects of decision-making processes in marketing. A strategic marketing simulation game and/or rigorous case analyses are typical. Prerequisites: MKT 403 and MQM 406 or equivalents.

431 ADVANCED CONSUMER BEHAVIOR**3 sem. hrs.**

An analysis of psychological, sociological, social psychological, and cultural forces that influence household and industrial buying behavior. Emphasis placed on examination of research related to these influencing forces, practical applications of research findings, and on the analysis of comprehensive models of consumer behavior. Prerequisite: MKT 430.

432 MARKETING RESEARCH

An examination of the marketing research process. Includes client projects and content-related exercises, especially data analysis using various statistical packages. Prerequisite: MKT 430 or equivalent.

433 ADVERTISING MANAGEMENT**3 sem. hrs.**

Rigorous evaluation of elements for the effective development, implementation, and management of advertising and integrated promotion campaigns. Prerequisite: MKT 430 or equivalent.

438 INTERNATIONAL MARKETING**3 sem. hrs.**

Examination of strategic issues related to effective development and execution of global marketing programs. Includes case-studies and an applied term project. Prerequisite: MKT 430 or equivalent.

439 SEMINAR IN MARKETING**1-4 sem. hrs.**

Topics will vary with needs and interests of students and faculty. May be taken more than once if different material is covered. Selling/sales management and services marketing continue to be popular topics. Prerequisite: MKT 430 or equivalent.

**498 PROFESSIONAL PRACTICE:
INTERNSHIP/COOPERATIVE
EDUCATION IN MARKETING****1-6 sem. hrs.**

Practical experience by employment in a position involving management of significant marketing activities in a firm. Prerequisites: MBA major with 12 credits of core courses completed; MKT 403 and 430; cumulative graduate GPA of 3.2 or higher; consent of department chairperson.

499 MASTERS THESIS**1-6 sem. hrs.**

COLLEGE OF EDUCATION

Dean: Sally B. Pancrazio. Office: 506 DeGarmo Hall

The College of Education includes the Departments of Curriculum and Instruction, Specialized Educational Development, Educational Administration and Foundations, the Office of Clinical Experiences and Certification Processes, and the University Laboratory Schools. One research and service unit and the offices for Higher Education and Educational Finance are also included in the College of Education.

The College of Education has three broad missions: (1) preparation of quality personnel to serve in all sectors of education in various capacities and at all levels of teaching and learning; (2) systematic study, research and evaluation of societal concerns within diverse cultural contexts and with the concomitant utilization of that research for society's benefit; and (3) active involvement in service activities designed to improve the quality of life through education and to ensure the necessity of existing programs and to identify new directions for the College.

The College of Education accepts responsibility for influencing public policy, standards, and practices which affect education at all levels. The preparation and continuing professional development of educators is the core of this mission. A comprehensive offering of degree, certification, and outreach programs operated year round at both undergraduate and graduate levels constitutes the primary mechanism through which the mission is fulfilled.

The College also fulfills its strategic mission of influencing education by providing support systems for faculty engaged in research, evaluation, product development and other creative activities. The research agenda of the College is focused on production, synthesis, and application of knowledge which tests and extends that knowledge base which undergirds educator preparation programs as well as contributes to solutions of contemporary education problems.

The third way by which the College meets its responsibility to influence education is to interact directly with practitioners in the field in a variety of partnerships in the educational and social service institutions, associations, and agencies in which they work. The College provides services and engages in collaborative activities aimed at improving the experiences and programs available to students at all levels. In addition, the College is an active participant in discussions related to educational policy development within national, state and local arenas.

Clinical Experiences and Certification Processes

Director: John T. Goeldi, 310 DeGarmo Hall.

Student Teaching

399 STUDENT TEACHING 1-16 sem. hrs.

Graduate students who wish to do their student teaching must meet all of the relevant requirements as outlined in the University-Wide Teacher Education Requirements section of the Undergraduate Catalog. Contact the CECIP office for further explanation of these requirements and procedures to apply for student teaching.

Students who are working toward a master's or doctoral degree while taking course work leading to entitlement or endorse-

ment from a graduate level program should submit an Intent to File for Certification form in the Office of Clinical Experiences and Certification Processes, 310 DeGarmo Hall. Certification is not given automatically at the completion of specified course work or degree work.

Refer all questions concerning certification to the Office of Clinical Experiences and Certification Processes.

CURRICULUM AND INSTRUCTION (C&I)

Acting Chairperson: John Godbold. Office: DeGarmo Hall 232.

Graduate Faculty: G. Baer, R. Baker, W. Benenson, N. Bettis, J. Braun, N. Carter, D. Curtis, R. Fisher, I. Garcia, G. Gayle-Evans, J. Godbold, J. Goeldi, G. Haukoos, K. Jerich, J. Jinks, D. Kachur, L. Kennedy, S. Lenski, M. Lorber, W. Miller, M. Moore, V. Morgan, R. Moss, S. Mungo, B. Nourie, J. Parks, D. Rhodes, T. Ryan, M. Shaw-Baker, F. Taylor.

Doctor of Education in Curriculum and Instruction

The Department of Curriculum and Instruction offers work leading to the Ed.D. in Curriculum and Instruction. This multidisciplinary program is designed to prepare practitioners for educational leadership roles in both the public and private sector. Candidates may pursue courses of study related to service in positions such as instructional specialists in community and four-year colleges; teacher educators; curriculum coordinators at the pre-school, secondary, elementary level; community college teachers in selected applied areas; staff development or program assessment directors; or educational specialists in government, professional organizations, business and industry. Students may elect to develop complementary fields in areas such as reading, educational administration, educational policy and/or research foundations. Other areas may be available to students upon departmental approval. Course requirements for the degree include a minimum of 9 sem. hrs. in Educational Foundations including 6 sem. hrs. of research methods or statistics; minimum of 24 sem. hrs. in Curriculum and Instruction; a minimum of 21 sem. hrs. in a complementary field with at least 9 sem. hrs. in this field taken outside the College of Education; 6 sem. hrs. internship; and a minimum of 15 sem. hrs. dissertation. Students must successfully complete at least two terms in full-time residency in a 12-month period or three terms in three consecutive summers. A term is defined as a semester or a summer session. Full-time is defined as successful completion of at least 9 semester hours of course work in a semester or 6 hours in a summer session of at least 8 weeks. Other university requirements for the doctoral program are listed elsewhere in this catalog.

Master's in Curriculum and Instruction

A master's degree program in curriculum and instruction is offered in the Department of Curriculum and Instruction. The primary purposes of the Master's Degree in Curriculum and Instruction are to provide each student with a broader knowledge base, to increase individual competency, and to develop analytical thought through advanced study of educational concepts, theories, issues, and their applications. The masters program does not lead to certification.

There are two alternative plans for the degree program. A student may: 1) take 30 hours of course work plus credit for six hours of thesis work, or 2) take 36 hours of course work and take a comprehensive examination. Course work requirements are fulfilled within five components of the degree program: Area I, Core Courses; Area II, Complementary Field Studies; Area III, Functions of Teaching; Area IV, Electives; and Area V, Culminating Field Experience.

The Department of Curriculum and Instruction requires students to complete the Graduate Record Examination for admission to the Master's program. The Department has established a combined score of 800 on the Verbal and Quantitative subsets of the GRE **AND** a 3.0 (on a 4 point scale) Undergraduate Grade Point Average for the last sixty hours of the student's undergraduate degree program, subject to the approval of the Dean of the Graduate School.

Program Alternatives

Alternative I is a 36 semester hour program with a comprehensive examination. Alternative II is a 36 semester hour program requiring 30 hours of course work plus six hours of thesis credit.

In Alternative I, Area I, 12 semester hours of Core Courses consisting of C&I 409, 415, 476 and EAF 410 are required. Area II, Complementary Field Studies, which is 6 semester hours, consists of graduate courses to be taken outside the College of Education. Area III, Functions of Teaching, which is 9 semester hours, consists of C&I 403, 412, 413. Area IV, Electives, 6 semester hours. Area V, Synthesizing Experience, which is 3 semester hours, is listed as C&I 420.

In Alternative II, Area I, 15 semester hours of Core Courses consisting of C&I 409, 415, 476, EAF 410 and **one of the following**: EAF 415, 509, or SOC 473. Area II, Complementary Field Studies, which is 6 semester hours, consists of graduate courses to be taken outside the College of Education. Area III, Functions of Teaching, which is 6 semester hours, consists of C&I 412 and 413. Area IV, Electives, which is three semester hours, consists of graduate courses to be taken inside the College of Education. Area V, Thesis Option, consists of 6 semester hours of C&I 499.

No 300-level courses in the College of Education will be accepted for plans of study in either Alternative I or II.

Advisement

Students are assigned departmental advisers as soon as they are admitted to the master's degree program in Curriculum and Instruction. In consultation with the adviser, each student plans his/her program and subsequently submits a Plan of Study to the Graduate School according to the requirements of this program.

Supervision Endorsement

Requirements for the supervision endorsement may be met, in part, through the degree program in Curriculum and Instruction. Approved courses taken under advisement and clinical experiences make up the requirements for the endorsement to a valid certificate. Application for the supervision endorsement must be made with the Director of Clinical Experiences and Certification Processes upon admission to the appropriate degree program.

Master's in Reading

Admission Requirements

Applicants to the Master's Degree Program in Reading Education may be considered for admission by having obtained a 3.0 GPA in the last 60 semester hours of under-

graduate work, possessing a current teaching certificate, and completing at least 2 years teaching experience. If an applicant's GPA for the last 60 semester hours of undergraduate work is below a 3.0, the applicant may be considered for probationary admission by taking 9 semester hours of required course work and obtaining a 3.3 GPA, or by submitting a combined verbal and quantitative score on the GRE of at least 1000.

Program Requirements

The M.S. Ed. in Reading is a 36 hour program that includes a comprehensive examination and a 6 hour Professional Research experience. The following courses are required: C&I 462, 463, 467, 468, 469, 493.03, EAF 415, and C&I 476; and one of each of the following choices: C&I 461, ENG 390 or 492; ENG 372, 375 or 470; C&I 465, 466, or 450. No 300 level courses in the College of Education will be accepted for the plan of study.

ISBE Staff Qualifications for the Teaching of Reading

The Illinois State Board of Education has identified five areas of study and one elective required of all teachers whose major teaching assignment is reading. All teachers assigned departmentalized responsibility in reading or language arts must meet this 18 semester hour requirement. Course work leading to the Staff Qualifications is offered in the Reading Program.

Special K-12 Reading Certificate

Course work leading to the Special K-12 Reading Certificate is offered in the Reading Program. The purpose of the certificate is to enable teachers to teach reading from Kindergarten through grade 12. The program leading to the Special K-12 Reading Certificate requires the completion of 33-39 semester hours in reading and related educational areas. Students working on the Special K-12 Certificate must first have a current teaching certificate.

Courses

300 EDUCATIONAL ROLE OF PLAY IN EARLY CHILDHOOD 3 sem. hrs.

Emphasizes the process of play and its relationship to personal and cognitive development during the first eight years of life. Historical and current theories of play. Clinical experiences required 20 hours, Type 1-5.

303 READING METHODS 3 sem. hrs.

Supervised school experiences in assessment and instruction in reading. Prerequisite: C&I 220 or C&I 251 or consent of dept. chairperson. 40 hours clinical experience Type 1, 2, 9, 10. Formerly SED 301.

312 URBAN FIELD EXPERIENCE 3 or 6 sem. hrs.

An off-campus, community-based experience in urban schools, local community agencies, and state and private institutions serving youth.

331 HISTORY AND PHILOSOPHY OF EARLY CHILDHOOD EDUCATION 3 sem. hrs.

Emphasis given to major events and theories having an impact on Early Childhood Education in its contemporary form. Prerequisite: C&I 300 or 301.

332 EDUCATION IN THE INNER CITY**3 sem. hrs.**

Problems of educating students living in inner city: student characteristics, needed teacher skills and attitudes, instructional materials, techniques, school and community programs. Field trips. Includes clinical experiences 15-20 hours, Type 1-4.

333 JUNIOR HIGH/MIDDLE SCHOOL**3 sem. hrs.**

Philosophy, functions, curricula of early adolescent education as implemented in junior high/middle schools. Relationships between pupils' developmental characteristics, needs, and behaviors and development of school programs. Problems, issues, evaluation, and accreditation of junior high/middle schools. Prerequisites: Consent of instructor and program adviser.

390 JUNIOR HIGH/MIDDLE SCHOOL CURRICULUM**3 sem. hrs.**

Methods and materials for teaching/learning experiences at this school level; instructional strategies; classroom management; guidance techniques; and pupil evaluation. Prerequisites: SED 306 and C&I 333 or concurrent registration. Includes clinical experiences 60 hours, Type 1-5.

395 CURRICULAR DESIGNS, EVALUATION, AND PROBLEMS IN EARLY ADOLESCENT EDUCATION**3 sem. hrs.**

Study of problems encountered by practitioners; curriculum designs, and principles underlying curricular development in early adolescent education.

401 INSTRUCTIONAL MEDIA AND TECHNOLOGY**3 sem. hrs.**

Applications of technology to theories of learning and methods of instruction. Developing and evaluating course ware to facilitate the design and management of classroom instruction.

403 ORGANIZATION AND MANAGEMENT OF CLASSROOM LEARNING**3 sem. hrs.**

The role of the classroom teacher in effective learning practices in the changing school setting. Organizing the school for effective living and learning; effective approaches to learning in the various curriculum areas in order to care for individual differences among students in the classroom.

405 NURSERY-KINDERGARTEN EDUCATION**3 sem. hrs.**

Criteria and procedures for developing, organizing, and administering early education programs. Intended for persons who plan to be responsible for the establishment and supervision of nursery-kindergarten programs.

406 EVALUATING STUDENT PERFORMANCE**3 sem. hrs.**

Identification and analysis of the role of evaluation in assessing student performance and the appropriate utilization of measurement instruments. Prerequisite: EAF 410 or equivalent.

408 INSTRUCTIONAL APPROACHES TO PRIMARY CURRICULUM**3 sem. hrs.**

Developmentally appropriate approaches to teaching and learning primary grades language arts, science and social studies with instructional media support. Prerequisites: C&I 301 or 405.

409 STUDENT DIVERSITY AND EDUCATIONAL PRACTICES**3 sem. hrs.**

Examination of student diversity in the classroom and its impact on curricular and instructional practices in the schools.

412 PRINCIPLES OF CURRICULUM DESIGN**3 sem. hrs.**

Application of principles to the design, implementation, and evaluation of curricula appropriate for diverse students, subject areas, and grade levels. Prerequisite: C&I 476 or consent of instructor.

413 PRINCIPLES OF INSTRUCTIONAL DESIGN**3 sem. hrs.**

Application of principles to the design, implementation, and evaluation of instruction appropriate for diverse students, subject areas, and grade levels. Prerequisite: C&I 415 or consent of instructor.

415 INSTRUCTIONAL THEORY**3 sem. hrs.**

Theoretical models underlying the instructional process. Relation of instructional theory to instructional design and practice.

420 SYNTHESIZING EDUCATIONAL EXPERIENCE**3 sem. hrs.**

Provide students with opportunities to identify, develop, and implement curriculum and instruction projects within a field-based environment. Prerequisites: 27-30 semester hours of graduate study; formal Plan of Study filed; and accepted for candidacy for a Master's Degree in Curriculum and Instruction.

421 FUNCTIONS OF THE MIDDLE SCHOOL**3 sem. hrs.**

Study of the classical functions of early adolescent education and the relationship of these functions to contemporary institutional/instructional settings.

423 DEVELOPMENTAL ISSUES IN EARLY ADOLESCENT EDUCATION**3 sem. hrs.**

Examination of developmental patterns and issues in the education of early adolescents in middle level schools.

431 INDIVIDUALIZED FIELD WORK IN EDUCATION**2-3 sem. hrs.**

Direct experiences in working with elementary or high school students, public school curricula, and staff and/or community groups involved in public school programs are provided. Approval for selecting this course and arranging for individual field work must be made by the dept. chairperson. This course is not to be used as a substitute for Student Teaching 399.

439 APPLIED HUMAN GROWTH AND DEVELOPMENT**3 sem. hrs.**

Application of principles of human growth and development in the classroom. Practice in the use of scientific procedures in the discovery of causes and the solution of classroom problems. Prerequisite: C&I 210 or consent of instructor.

441 EDUCATION OF THE GIFTED**3 sem. hrs.**

Survey of the field of education of the gifted. Deals with definition, identification, characteristics, programming, materials and evaluation of gifted students.

450 LANGUAGE ARTS INSTRUCTIONAL STRATEGIES
3 sem. hrs.

Analysis and application of learning theories and child growth and development principles to curriculum organization, instructional materials, and techniques for elementary school language arts programs.

452 ELEMENTARY SCHOOL SOCIAL STUDIES: INSTRUCTIONAL STRATEGIES
3 sem. hrs.

Utilization of the structure, concepts, and modes in inquiry of the social sciences in implementing curriculum trends and innovations in elementary school social studies programs. Instructional strategies, such as inquiry and simulation, techniques for developing skills, understandings and attitudes characteristic of the social studies.

453 ELEMENTARY SCHOOL SCIENCE: INSTRUCTIONAL STRATEGIES
3 sem. hrs.

Analysis and application of current research findings to the selection, construction, utilization, evaluation, and implementation of science instructional materials.

455 INSTRUCTIONAL SKILLS FOR INQUIRY TEACHING
3 sem. hrs.

A study of verbal and non-verbal classroom (K-12) interactions including clinical experiences. Cognitive and affective strategies for achieving inquiry oriented objectives, and selection of learning materials conducive to inquiry learning.

457 INDIVIDUALIZING INSTRUCTION
3 sem. hrs.

Methods, materials and activities for providing individualized instruction; teacher/student roles with emphasis focusing on the learner will be considered. Materials charge optional.

461 RECENT RESEARCH IN LITERACY LEARNING
3 sem. hrs.

Study of recent research in literacy learning, emphasizing interpretation, critical analysis, and application of research for the improvement of instruction. May be repeated for credit every five years; may be applied only once to a graduate degree program. Formerly SED 401 and 402.

462 THEORETICAL FOUNDATIONS OF READING
3 sem. hrs.

Theoretical bases for reading instruction, covering cognitive, linguistic, and physiological processes as they relate to the teaching of reading. Formerly SED 402 and 403.

463 ASSESSMENT OF LITERACY LEARNING
3 sem. hrs.

Evaluation of literacy learning using authentic assessments, standardized tests, observations and portfolios. Formerly SED 403 and 408.

465 CONTENT AREA LITERACY
3 sem. hrs.

Strategies and materials designed to provide content area literacy instruction. Formerly SED 405.

466 TEACHING ADULTS TO READ
3 sem. hrs.

Focus on the literacy needs of the adult population; emphasis on goals, appropriate techniques, content, and materials for literacy instruction. Prerequisite: One course in reading. Formerly SED 406 and 420.

467 ADVANCED LITERACY ASSESSMENT AND INSTRUCTIONAL STRATEGIES
3 sem. hrs.

Advanced study of miscue analysis for assessing strategies of ineffective readers; includes development of instruction to support nonproficient readers. Prerequisites: C&I 462 and 463. Formerly SED 407. Clinical experiences.

468 PROFESSIONAL RESEARCH IN LITERACY LEARNING I
3 sem. hrs.

Design and implementation of curricular and instructional change in literacy learning in an educational setting. Prerequisites: C&I 467; 27 hours in Reading Program; consent of the Reading Program Coordinator; approved plan of study. Formerly SED 408.

469 PROFESSIONAL RESEARCH IN LITERACY LEARNING II
3 sem. hrs.

Implementation of curricular and instructional change in literacy learning in an educational setting. Prerequisite: C&I 468. Formerly SED 409

470 SEMINAR IN READING
3 sem. hrs.

Analysis of current literacy learning practices, trends, and issues. Formerly SED 419

475 CLINICAL EXPERIENCES IN TEACHER EDUCATION
1-3 sem. hrs.

Exploration of the role of clinical experiences in teaching and learning. Significant trends, philosophies and programs of teacher education. For experienced teachers and administrators associated with teacher education programs. The course is in three components and may be taken separately or in combination for 1, 2, or 3 hours.

476 CURRICULUM THEORY
3 sem. hrs.

Basic theoretical assumptions which support existing curriculum models. Introduction to the process of curriculum development. Relation of the planning process elements to curriculum models.

477 SUPERVISION OF INSTRUCTION
3 sem. hrs.

Fundamentals of supervision as it relates to improvement of instruction, teacher inservice, group leadership, evaluation of instruction, and staff development. Includes clinical experiences.

488 DESIGN AND IMPLEMENTATION OF CONTEMPORARY COMPREHENSIVE EARLY CHILDHOOD EDUCATION PROGRAMS
3 sem. hrs.

The design and implementation of programs concerned with infants, toddlers, pre-kindergarten, and early elementary school children in educational settings. Prerequisite: Professional involvement in an agency or institution providing early childhood education programs.

491 INTERNSHIP IN COLLEGE TEACHING
3 sem. hrs.

Observation and teaching in the student's major area, with other experiences appropriate to academic involvement at the college level. Offered in cooperation and with the approval of the student's major department. Prerequisite: Graduate standing.

499 MASTER'S THESIS

1-6 sem. hrs.

530 CURRICULUM AND INSTRUCTIONAL PATTERNS IN POST-SECONDARY EDUCATION

3 sem. hrs.

Readings on major curricular and instructional patterns in colleges, universities, continuing education, and personnel training programs. Emphasis on individualized study and reports.

538 EVALUATION OF INSTRUCTION IN POST-SECONDARY EDUCATION

3 sem. hrs.

Major conceptions, elements, and processes of instructional evaluation in colleges, universities, continuing education and personnel training programs.

539 SEMINAR IN CURRICULUM AND INSTRUCTION, POST-SECONDARY EDUCATION

3 sem. hrs.

Designed for intensive investigation of a variety of issues and contemporary trends related to the concerns of Post-Secondary educators.

562 THE EDUCATION OF TEACHERS

3 sem. hrs.

A study of the professional development of teachers and those involved in teacher education. Current practices and reform literature associated with pre-service and inservice teacher education. Prerequisite: Master's Degree.

575 INSTRUCTIONAL RESEARCH

3 sem. hrs.

Alternative modes of research and their application in resolving problems of instructional practice. Meta-analysis of major research paradigms. Prerequisites: Majors only or consent of instructor.

576 PRINCIPLES OF CURRICULUM IMPROVEMENT

3 sem. hrs.

Examination of forces influencing curriculum improvement. Focuses on analysis of curriculum and application of principles for resolution of curriculum problems. Prerequisite: C&I 476 or its equivalent.

577 ADVANCED SUPERVISION OF INSTRUCTION

3 sem. hrs.

Knowledge base and skills needed for instructional supervision in teacher education. Emphasis on application of research in clinical settings. Prerequisite: C&I 477 or equivalent.

578 INSTRUCTIONAL DESIGN

3 sem. hrs.

Design of instruction for schools, colleges, universities and other educational programs. Application of design principles for resolution of instructional problems.

579 EDUCATIONAL TECHNOLOGY

3 sem. hrs.

Examination of the perspectives, theoretical foundations, and techniques of educational technology, and integration of that technology into the curriculum. Prerequisites: C&I 401 or 433, or EAF 401, or COM 362 or COM 435 or equivalent.

590 IMPROVEMENT OF INSTRUCTIONAL PRACTICE IN POSTSECONDARY EDUCATION

3 sem. hrs.

Principles and methods for instructional improvement in post-secondary education. Emphasis on analyzing and resolving instructional problems. Prerequisite: Teaching experience or consent of instructor.

594 RESEARCH SEMINAR IN EDUCATION

3 sem. hrs.

Designed for the development of a doctoral dissertation proposal ready for committee consideration. Various methodological and design components will be studied.

598 DOCTORAL INTERNSHIP

3-6 sem. hrs.

An internship providing for the integration of academic content materials with the role expectations of professional personnel.

599 DISSERTATION RESEARCH

Variable credit

Research relating to research requirements for Doctor of Education degrees. Approval of the chairperson of the department of the program in which the student is enrolled is required.

EDUCATIONAL ADMINISTRATION AND FOUNDATIONS (EAF)

Acting Chairperson: P. Baker. Office: 331 DeGarmo Hall.

Graduate Faculty: R. Arnold, D. Ashby, P. Baker, D. Blacker, R. Chaudhari, C. Eisele, R. Halinski, J. Hecht, G.A. Hickrod, E. Hines, P. Klass, J. McCarthy, L. McNeal, J. Mogilka, G. Padavil, J. Palmer, S. Pancrazio, R. Riegle, D. Strand, K. Strand, L. Watson.

Programs Offered

Work leading to the M.S., M.S. in Ed., Ed.D. and Ph.D. degrees is offered in Educational Administration. Students may include in their academic programs courses required for Illinois Administrative Certificate. The department also offers course work in the areas of educational foundations, research and evaluation, higher education administration, and K-12 school administration.

Master's Degree Program**Admission Requirements**

To be admitted to the Master's program a student must have at least a 3.0 GPA (on a scale in which A equals 4) for the last 60 hours of undergraduate work. Individuals with less than a 3.0 GPA for the last 60 hours will be considered for admission if they submit scores from the General Test of the Graduate Record Examination. Students without teaching experience may be admitted to this program but must obtain experience in education if they wish to seek certification for K-12 administration positions.

Program Requirements

For individuals seeking certification, at least 27 semester hours of course work in Educational Administration and supervision as approved by the department as equivalent are required including C&I 476, and 415 or 477, EAF 410, 478, 479, 481, and 485; SOC 465, and a basic foundation course; and for the 39-hour master's degree program described below, EAF 482. Additional courses are selected with the recommendations and consent of the adviser in this curriculum. Students not seeking certification develop their programs in consultation with an academic adviser appointed by the Chairperson.

University requirements for master's degree programs are listed elsewhere in this catalog. In addition to the regular requirements,

a Master of Science in Education may be awarded in Educational Administration upon the completion of 39 hours of course work provided that the above requirements are met and at least six hours are taken in fields other than Education.

The Master's in Educational Administration also offers a concentration in College Student Personnel Administration. The required core consists of EAF 410, 462, 463, 464, 473, 482.1, 484 and SOC 465. Additional courses are selected with the recommendation and consent of the advisor. This concentration is appropriate for those individuals who wish to perform the role of administrator, counselor, or educator in Student Affairs and Higher Education Administration.

Doctoral Programs

The Department offers work leading to the Ed.D. and Ph.D. degrees in Educational Administration. These degrees have as their major purpose the preparation of administrators in educational institutions and agencies at all levels. In addition, these degrees may prepare individuals for research positions in educational administration. Applicants must have a minimum cumulative grade point average of 3.0 in graduate courses to be eligible to apply. Other university requirements for these degrees are listed elsewhere in this catalog.

COOPERATIVE PROGRAM WITH SPRINGFIELD EDUCATIONAL CONSORTIUM

Graduate level courses in educational administration are available through the Springfield Educational Consortium. Students may take approved courses on the University of Illinois at Springfield campus from the participating universities—Illinois State, University of Illinois at Springfield, Southern Illinois-Carbondale, and Western—and receive commensurate credit toward an advanced degree in Educational Administration. Students interested in graduate level work should pursue with an Illinois State faculty adviser a Plan of Study incorporating course work at the University of Illinois at Springfield.

Certification Programs

Requirements for administrative endorsements may be met through the degree programs in educational administration. However, individuals desiring administrative endorsements must also apply for these endorsements with the Director of Clinical Experiences and Certification Processes upon admission to one of these programs.

The General Administrative, Superintendent and Chief School Business Official Endorsements all require teaching and/or administrative experience. Students are also required to complete clinical experiences within their program of studies prior to being recommended for any endorsement. Students are requested to confer with personnel in the Office of Clinical Experiences regarding these requirements.

Foreign Language Requirements for Ph.D. Candidacy

In general, the department requires that a Ph.D. candidate must have 1) a reading knowledge of two foreign languages or 2) advanced knowledge of one language. However, when approved by the Chairperson of the Department of Educational Administration and Foundations, the Dean of the College of Education and the Dean of the Graduate School, a student may substitute for either of the above two language requirements any two of the following competencies:

1. Competency in statistics as certified by the Department of Educational Administration and Foundations.
2. Competency in another research methodology other than 1 and 2 above certified by the Department of Educational Administration and Foundations and appropriate graduate faculty members external to the department.
3. Competency in a discipline for research purposes as certified by the Department of Educational Administration and Foundations and appropriate graduate faculty members external to the department.

Courses

401 INTRODUCTION TO MICROCOMPUTERS IN THE SCHOOLS

3 sem. hrs.

Provides teachers and administrators with appropriate information to evaluate and infuse microcomputers and software into an educational environment. Cross listed with ACS.

402 ADMINISTRATIVE APPLICATIONS OF MICROCOMPUTERS IN SCHOOLS

3 sem. hrs.

Development of Microcomputer skills for solving administrative problems; applications using word processing, spreadsheet analysis, data base systems, data analysis, and graphics. Prerequisite: EAF 401 or equivalent is recommended.

410 RESEARCH METHODOLOGY AND STATISTICS IN EDUCATION I

3 sem. hrs.

The development of basic skills required in the understanding, planning and executing of a research study; introduction to descriptive and inferential statistics.

411 EDUCATIONAL EVALUATION

3 sem. hrs.

A survey of models, designs, data analytic techniques, and issues of educational program evaluation, as well as issues and procedures in testing. Design of an evaluation project is required. Prerequisite: EAF 410 or consent of instructor.

415 QUALITATIVE RESEARCH IN EDUCATIONAL SETTINGS

3 sem. hrs.

The development of the necessary knowledge and skills for applying qualitative techniques of investigation to the research of educational problems.

421 REFLECTIVE DECISION-MAKING IN EDUCATION

3 sem. hrs.

Techniques for critical, reflective thinking about educational problems and policies studied from philosophical, historical, cross-cultural and social science perspectives.

423 PROFESSIONAL ETHICS IN EDUCATION

3 sem. hrs.

Systematic inquiry into ethical issues faced by contemporary educators and philosophical techniques and theories which can help practitioners resolve them.

428 SELECTED TOPICS IN FOUNDATIONS OF EDUCATIONAL POLICY

3 sem. hrs.

Intensive inquiry into the educational significance of problems generated by philosophical, comparative, or historical issues. May be repeated if topics are different.

1. Reading knowledge of one foreign language.

**431 INDIVIDUALIZED FIELD WORK
IN EDUCATION**
2 or 3 sem. hrs.

(See C&I 431.) Consent of department chairperson.

**447 ADMINISTERING EDUCATIONAL
PROGRAMS FOR
EXCEPTIONAL CHILDREN**
3 sem. hrs.

Principles and problems involved in organization, administration, planning and evaluation of educational programs for exceptional children. Also offered as SED 447.

**461 STUDENT PERSONNEL ADMINISTRATION IN
HIGHER EDUCATION: EVOLUTION
AND DEVELOPMENT**
3 sem. hrs.

Examination of the evolution and development of student personnel administration in colleges and universities.

**462 THE ORGANIZATION AND
ADMINISTRATION OF STUDENT
PERSONNEL FUNCTIONS IN
HIGHER EDUCATION**
3 sem. hrs.

Contemporary student personnel administration and organization of functions and activities associated with student personnel administration at colleges and universities.

463 THE AMERICAN COLLEGE STUDENT
3 sem. hrs.

The study of the college student and of the historical, environmental, and developmental influences which have affected student life from 1965 to the present.

**464 PRACTICUM IN STUDENT
PERSONNEL ADMINISTRATION IN
HIGHER EDUCATION**
3-8 sem. hrs.

Supervised work experience in a student personnel office, department or related area in higher education.

**473 ORGANIZATION AND ADMINISTRATION
IN COMMUNITY COLLEGES**
3 sem. hrs.

Community colleges are studied in relation to other institutions of higher education. Organizational structure, governance, finance, staffing, program administration, problems, issues, and trends will be included.

478 LEGAL BASES OF PUBLIC EDUCATION
3 sem. hrs.

Legal aspects of public education with emphasis on constitutional law, the Illinois School Code, and judicial rulings. Examination of rights and responsibilities of boards, administrators, teachers and students.

479 FINANCIAL BASES OF PUBLIC EDUCATION
3 sem. hrs.

Major concepts of financial aid and taxation, research, and public policy in school finance including equity, adequacy, efficiency, and budgeting. Includes site-based administration and allocation of funds.

**480 EDUCATIONAL FACILITIES
AND SUPPORT SERVICES**
3 sem. hrs.

Emphasis on systems of appraising, managing and planning school buildings, sites, equipment, and support services (plant operations and maintenance, food service, and transportation).

**481 ADMINISTRATION AND ORGANIZATION
OF SCHOOLS**
3 sem. hrs.

A survey of the principles of administration and organization of the school relating to the functioning of the public school system at the local, intermediate, state and national levels. Special attention is directed towards personnel practices, curriculum development, instructional improvement, interpersonal communication, and the relationship of school to community.

482 ADMINISTRATION SEMINAR
3 sem. hrs.

Culminating seminar for 39-hour master's degree program. Emphasis upon changing educational relationships, students' major concerns, and current problems. Prerequisite: Enrolled in the last semester 39-hour program or after completion of required Educational Administration and Foundations courses, or consent of department chairperson. EAF 482 is for students seeking certification. EAF 482.01 is for students not seeking certification.

483 MANAGEMENT OF EDUCATIONAL FUNDS
3 sem. hrs.

Develops competence in managing funds in public K-12 education. Topics include cash and investment management, budgeting and forecasting, fund accounting, financial statements and auditing, data processing systems, and student activity funds. Prerequisite: EAF 479 or consent of instructor.

**484 ADMINISTRATION OF CONTINUING
EDUCATION AND PUBLIC SERVICE**
3 sem. hrs.

Administration of continuing education and public service; emphasis upon developing, financing, staffing, sustaining, and administering continuing education and public service of all educational institutions. Prerequisite: Admission for graduate work.

485 THE PRINCIPALSHIP
3 sem. hrs.

Development and application of knowledge and competencies of the school building principal as instructional leader. Prerequisite: EAF 481 or consent of department chairperson. EAF majors only.

486 PERSONNEL ADMINISTRATION
3 sem. hrs.

Provides general understanding of personnel functions in education. Special emphasis on staff development, communication, job analysis, recruitment, selection, collective bargaining, contract administration, and long range planning.

487 ORGANIZATION DEVELOPMENT
3 sem. hrs.

Conceptual understanding and skill development in planned change, conflict management, interpersonal communications, group processes, and team building as they relate to improving organizations.

492 POLITICS OF EDUCATION SEMINAR
3 sem. hrs.

Serves as a practical way to introduce the student to the effect and understanding of the methods of politics in the educational arena; emphasis on state level politics of education.

494 EDUCATIONAL PUBLIC RELATIONS
3 sem. hrs.

Issues and techniques of Public Relations as a two-way process: interpreting the public to the system as well as interpreting the system to the public as a basis for action.

496 BARGAINING IN EDUCATION**2-3 sem. hrs.**

Issues and techniques of collective bargaining in education. The three-credit-hour offering includes additional research and experiences with contract language interpretation and analysis of grievances.

498 PROFESSIONAL PRACTICE**3-8 sem. hrs.**

Refer to General Courses. Prerequisite: Recommendation of adviser prior to beginning of semester.

499 MASTER'S THESIS**1-6 sem. hrs.****509 RESEARCH DESIGN IN EDUCATION: ISSUES AND STANDARD PRACTICES****3 sem. hrs.**

Examination of issues related to designing and planning research studies. Students learn to apply techniques to specific educational research problems. Prerequisite: EAF 410 or equivalent.

510 RESEARCH METHODOLOGY AND STATISTICS IN EDUCATION II**3 sem. hrs.**

Logic of statistical inference; introductory study of analysis of variance and multiple regression, with a computer oriented approach. Prerequisite: EAF 509 or equivalent.

511 RESEARCH METHODOLOGY AND STATISTICS IN EDUCATION III**3 sem. hrs.**

Design of multi-variable studies, multivariate data analysis using statistical computer programs. Prerequisite: EAF 510 or equivalent.

512 RESEARCH METHODOLOGY AND STATISTICS IN EDUCATION IV**1-6 sem. hrs.**

Provides for advanced study of research design and data analysis. Consult instructor prior to registration. Prerequisite: EAF 511 or consent of instructor.

521 EDUCATIONAL POLICY ANALYSIS I**3 sem. hrs.**

Purposes, paradigms, methodologies, and elements of policy analysis in education. Prerequisite: One graduate level course in educational foundations or consent of instructor.

523 SEMINAR IN EDUCATIONAL POLICY ANALYSIS**3 sem. hrs.**

Intensive inquiry into the comparative, philosophical, and/or historical dimensions of selected educational policies. May be repeated providing the subject matter is not repeated. Prerequisite: One graduate level course in educational foundations or consent of instructor.

524 EDUCATIONAL POLICY ADVOCACY**3 sem. hrs.**

Examination of the theory and practice of policy advocacy in education. Prerequisite: One graduate level course in educational foundations or consent of instructor.

525 FOUNDATIONS OF COMPARATIVE MULTICULTURAL EDUCATION**3 sem. hrs.**

Comparative analysis of multicultural education in the United States and selected areas of the world. Prerequisite: One graduate level course in educational foundations or consent of instructor.

526 HISTORY OF EDUCATIONAL THOUGHT**3 sem. hrs.**

This course will undertake the critical reading and critique of selected works which have had historically impact educational thought in America.

548 ADVANCED SEMINAR ON LEGAL BASES OF EDUCATION**3 sem. hrs.**

For advanced graduate students in Educational Administration. Varied emphasis depending on interests of students and contemporary issues in school law. Prerequisites: EAF 481 and 478, or consent of instructor. May be repeated provided topics are not repeated.

561 ORGANIZATIONAL PATTERNS IN HIGHER EDUCATION**3 sem. hrs.**

Introduction to the literature of higher education. Extensive reading is required. Goals, organizational structure, policies, and practices of the administration of contemporary American higher and postsecondary education are included.

562 DECISION MAKING IN HIGHER EDUCATION**3 sem. hrs.**

Utilization of simulated data for decision making, evaluating the educational environment, allocation of resources, analysis of staffing patterns, and utilization of microcomputers.

563 CRUCIAL ISSUES IN AMERICAN HIGHER EDUCATION**3 sem. hrs.**

Issues, problems, and current topical concerns in the administration of higher education. Specific topics may vary and students will complete research projects on selected current critical issues.

564 PLANNING IN HIGHER EDUCATION**3 sem. hrs.**

Components, models, and approaches to planning in higher education. Includes needs assessment, master planning, self-study, outcomes, and the function of institutional research.

570 PUBLIC FINANCE OF HIGHER EDUCATION**3 sem. hrs.**

An investigation of topics and problems in the public finance of higher education. Topics will vary each semester but the following will be included: Revenue policy and expenditure policy for higher education, program and performance budgeting and other efficiency concerns, investment in education and national economic growth, aspects of the business management of higher education.

571 COLLEGE ADMINISTRATION**3 sem. hrs.**

Academic and other college departments are analyzed in relation to institutional problems and trends. Departmental management issues will include governance, finance, staffing, academic administration, coordination, and evaluation. Prerequisite: EAF 561, 562, and 578.

575 SEMINAR IN SCHOOL BUSINESS MANAGEMENT**3 sem. hrs.**

Emphasis on planning and cost analysis strategies for local school district financial management. Content will vary with the needs of the students and focus on emerging problems in school business and financial management that leads to school improvement. Prerequisites: EAF 479, 483 or consent of instructor. May be repeated.

576 ADMINISTRATION OF INSTRUCTIONAL PROGRAMS**3 sem. hrs.**

Administrative strategies for implementation, maintenance, revision, and evaluation of instructional programs and curriculum. Prerequisites: EAF 485 and C&I 476 or consent of instructor.

578 LEGAL BASES OF HIGHER EDUCATION**3 sem. hrs.**

Overview of the law of higher and postsecondary education. Topics will vary, but the following will be included: legal issues pertaining to students, faculty, college employees, administrators, trustees, and governance. Prerequisites: Advanced graduate standing.

579 RESEARCH SEMINAR ON THE PUBLIC FINANCE OF EDUCATION**3 sem. hrs.**

Seminar for graduate students who wish to understand and conduct research on the financing of education, critique output from major research centers. Prerequisites: EAF 479 or equivalent.

582 ADMINISTRATIVE THEORY IN EDUCATION**3 sem. hrs.**

Overview of sociological and behavioral theories that are applicable to administration of various educational organizations. For persons holding a master's degree in any field.

583 SEMINAR IN EDUCATIONAL LEADERSHIP**3 sem. hrs.**

Designed to provide an understanding of the leadership structures and processes in educational organizations. Required of all doctoral candidates in administration. Prerequisites: EAF 582 and admission to the doctoral program.

584 SUPERINTENDENT AND CENTRAL STAFF**3 sem. hrs.**

Development and assessment of knowledge, responsibilities, and competencies required of chief administrative officer, and in the case of larger districts, his/her central staff. Students may participate in a professional growth seminar. Prerequisite: Advanced graduate standing.

594 RESEARCH SEMINAR IN EDUCATION**3 sem. hrs.**

Designed for the development of a doctoral dissertation proposal ready for committee consideration. Various methodological and design components will be studied.

599 DISSERTATION RESEARCH**Variable credit**

Research relating to research requirements for Doctor of Philosophy and Doctor of Education degrees. Maximum of 16 semester hours credit in research may be counted toward residency.

SPECIALIZED EDUCATIONAL DEVELOPMENT (SED)

Chairperson: Paula Smith. Office: DeGarmo Hall 533.

Graduate Faculty: G. Aloia, J. Bakken, M. Bowen, E. Crowley, N. DeMario, E. Glenn, T. Jones, M. Lartz, J. Lee, J. Lian, T. McCarty, L. Morreau, P. Smith, J. Thompson, D. Tucker.

Doctoral Program

The Department of Specialized Educational Development offers a Doctor of Education in Special Education. The pro-

gram is designed to prepare individuals in teacher education, program design/management, and research/evaluation in special education. Admission to the program requires possession of the master's degree and professional experience relevant to the education of exceptional children and youth. The doctoral student's program is highly individualized, based on educational and professional experience and career plans. The student's program will include formal course work, independent study, professional practice, and a dissertation. A minimum of 60 hours, not including the dissertation, is required to complete the degree. Students who have completed a sixth-year program or have identified only post-master's degree competencies may petition for a waiver of up to 12 semester hours of the required 60 hours of work.

Master's Degree Programs

The department offers master's degrees in the areas of Counselor Education, and Special Education. Each of these areas, their specific programs and requirements, are presented in the following section.

Counselor Education

The master's degree in Counselor Education requires a minimum of 48 semester hours of graduate work in Counselor Education and related subjects. A student may work toward a Master of Science or a Master of Science in Education degree by fulfilling the requirements specified in this catalog. Students in Counselor Education select one of the following sequences:

School Counseling: Prepares counselors for public and private educational settings covering the elementary through post-secondary spectrum. The program provides a unique preparation, grounded in the behavioral sciences, with counseling skills adapted to the school setting. Persons completing this program who have a valid teaching certificate ordinarily will be eligible to apply for the Type 73 School Service Personnel Certificate required for grade K-12 guidance counselors in Illinois.

Counseling in Higher Education: Prepares counselors for junior and senior colleges, and other counseling oriented positions in higher education.

Human Services Counseling: Prepares students to work as counselors, trainers, and prevention specialists in consultation and education components in education, business, and human service settings. The program emphasizes training in counseling skills, primary prevention, and developmental crisis intervention.

Admission to the Counselor Education Program

A student desiring to be admitted to the graduate program in Counselor Education must meet the requirements for admission to the Graduate School which have been outlined elsewhere in this catalog. In addition, to be admitted to the Counselor Education Degree Program, a student must have at least a 3.0 GPA (on a 4.0 scale) for the last 60 hours of undergraduate work OR a 900 minimum composite on the verbal and quantitative sections of the Graduate Record Examination and be recommended by the Counselor Education Selection Committee.

Admission to Degree Candidacy/Practicum

Students may apply for Practicum and Internship courses following the completion of the twelve-hour Foundations Core as specified in the Counselor Education Handbook. They must have completed the additional twelve-semester hour Pre-Practicum Core, maintained a GPA of 3.25 or above, and submitted an approved Plan of Study before enrolling in Practicum. Completion of Practicum with a grade of B or better is a prerequisite for Internship.

Required Courses

Students in all sequences are required to complete a common core of courses composed of general areas considered to be necessary in the preparation of counselors and human services educators. Areas include human growth and development, social and cultural foundations, the helping relationship, groups, life style and career development, appraisal of the individual, research and evaluation, and professional orientation. In addition the various sequences include specialized studies necessary for practice in different work settings. The specific courses which are required are outlined in the Counselor Education Handbook.

Graduation

The Master's Degree in Counselor Education requires a minimum of 48 semester hours of graduate study with an overall GPA of at least 3.25. Included in this program the student must have completed both SED 462, Practicum in Counselor Education, and SED 498, Professional Practice with grades of B or better.

Accreditation

The School Counseling and Human Services Counseling sequences are accredited by the Council for the Accreditation of Counseling and Related Educational Programs (CACREP), a specialized accrediting body recognized by the Council on Postsecondary Accreditation (COPA).

Special Education

A student may work toward a Master of Science or a Master of Science in Education degree by fulfilling the requirements specified in this catalog. Graduate work for the master's degree is offered in the following sequences: Learning and Behaviorally Disordered, Deaf and Hard of Hearing, Educable Mentally Handicapped, Trainable Mentally Handicapped, Physically Handicapped, and Visual Disabilities. To be admitted to the Master's Degree Program in Special Education, a student must have obtained a grade point average of 3.0 (on a scale where A equals four) for the last 60 hours of undergraduate work. A student with a grade point average below 3.00 must take the Graduate Record Examination and submit scores of at least 800 on two out of three subtests of the General GRE. In addition, all students must submit three letters of recommendation including one from the current employer and one from an individual who can attest to the candidate's academic ability. Departmental requirements and options for the master's degree are listed below.

Option 1 is a 32 semester hour program including a thesis. The student must complete at least 15 semester hours in Education and/or Psychology including EAF 410, SED 440, PSY 301 or 302 and 4 to 6 semester hours of thesis credit. At least 15 hours must be in courses numbered at the 400 level or above. Additional courses to meet program requirements are selected following recommendations of an adviser.

Option 2 is a 32 semester hour program of course work including a comprehensive examination. Course requirements are the same as Option 1, but thesis credit is not required.

Option 3 is a 39 semester hour program of course work. The student must complete C&I 476, EAF 410, SED 440, 446 (specific to area of concentration), 445, and 482. At least 18 semester hours must be in courses numbered at the 400 level or above. Additional courses to meet program requirements are selected following recommendations of an adviser.

Through the Department of Curriculum and Instruction graduate students may take course work in Early Childhood Education to complement their special education preparation. A program in administration and special education is offered in cooperation with the Department of Educational Administration and Foundations.

Certification

Students who are working toward a master's or doctoral degree and who are also taking course work leading to certification or an endorsement by entitlement should complete an Intent to File for Certification form in the Office of Clinical Experiences and Certification Processes. All students who plan to receive certification in the State of Illinois via an approved Illinois State program must file official forms and follow specific procedures. Certification is not given automatically at the completion of specified course work or degree work.

Courses

313 SPECIAL ADAPTATIONS FOR INDIVIDUALS WITH VISUAL DISABILITIES

1 sem. hr.

Not for credit to students specializing in Visual Disabilities. Implications of visual disabilities for the individual in educational, travel, vocational, and other settings.

314 SPECIAL ADAPTATIONS FOR INDIVIDUALS WITH PHYSICAL DISABILITIES

1 sem. hr.

Not for credit to students specializing in Physically Handicapped. Implications of physical disabilities for the individual in educational, travel, vocational and other settings. Includes clinical experience approximately 6 hours, Type 1 and 6.

315 SPECIAL ADAPTATIONS FOR INDIVIDUALS WITH HEARING DISABILITIES

1 sem. hr.

Not for credit to students specializing in Hearing Disabilities. Implications of hearing disabilities for the individual in educational, travel, vocational and other settings. Includes clinical experience approximately 2 hours, Type 1.

343 MENTAL RETARDATION

3 sem. hrs.

Medical, psychological, and sociological characteristics and behavior of individuals with mental retardation. Methods of classification, etiology, and rehabilitative aspects.

345 EDUCATION OF STUDENTS WITH MODERATE/SEVERE MENTAL RETARDATION

3 sem. hrs.

Classroom organization strategies, teaching methods and materials for curriculum content areas across the psycho-social, applied and cognate domains for individuals from birth through adulthood. Prerequisites: Successful completion or concurrent enrollment in SED 244 (or 445) and 343. Concurrent registration in appropriate clinical experience (SED 245 or 431.56).

346 EDUCATION OF STUDENTS WITH MILD MENTAL RETARDATION

3 sem. hrs.

Objectives, curriculum and methods for teaching individuals with mild cognitive disabilities. Materials charge optional. Prerequisite: SED 343 or consent of department chair.

349 EDUCATIONAL ASSESSMENT AND TEACHING OF STUDENTS WITH PHYSICAL DISABILITIES
4 sem. hrs.

Application of educational diagnosis to educational programming and teaching of individuals with physical disabilities. Prerequisite: SED 385. Concurrent registration in appropriate clinical experience (SED 245 or 431.61).

350 INTRODUCTION TO VISUAL DISABILITIES
4 sem. hrs.

Impact of visual impairments on development; basic anatomy of the eye; types, causes, and educational implications of eye disorders; educational programming. Includes clinical experience approximately 10 hours, Type 1.

351 EDUCATION AND ASSESSMENT OF STUDENTS WITH VISUAL DISABILITIES
3 sem. hrs.

Application of educational diagnosis to educational programming and instruction of individuals with visual disabilities. Prerequisites: SED 350 and 356.

352 BRAILLE READING AND WRITING
3 sem. hrs.

Preparation in reading and writing using the Braille Literary Code. Includes an introduction to Braille Textbook Format. Materials charge optional.

353 EDUCATION OF DEAF STUDENTS
2 sem. hrs.

Psychological, social, historical, and educational problems relating to education of individuals with hearing impairments. Prerequisite: SED 145 or equivalent. Includes clinical experience approximately 10 hours, Type 1.

354 TEACHING LANGUAGE TO DEAF AND HARD OF HEARING STUDENTS
3 sem. hrs.

Principles and techniques of developing and teaching language to deaf and hard of hearing students at all grade levels, K-12. Prerequisites: SED 130, 230, 330, 353 or consent of department chair. Concurrent registration in SED 245.08 required. Admission to Teacher Education.

355 THE TEACHING OF SPEECH TO DEAF AND HARD OF HEARING STUDENTS
3 sem. hrs.

Principles and techniques of developing and teaching speech to hearing impaired students at all grade levels. K-12. Prerequisites: SED 354 and PAS 211 or consent of department chairperson. Concurrent registration in SED 245.09. Admission to Teacher Education.

356 COMMUNICATION SKILLS FOR STUDENTS WITH VISUAL DISABILITIES
3 sem. hrs.

Preparation in reading and writing using Nemeth Code, in teaching mathematics and communication skills to individuals with visual disabilities. Prerequisite: SED 352. Materials charge optional.

357 ORIENTATION AND MOBILITY FOR CLASSROOM TEACHERS
2 sem. hrs.

Practicum in basic daily living skills and rudimentary mobility techniques for individuals with visual disabilities.

358 READING AND LANGUAGE ARTS FOR STUDENTS WITH VISUAL DISABILITIES
3 sem. hrs.

Development of competencies to teach reading and language arts to students who use print, braille, and auditory media. Instructional techniques and materials emphasized. Prerequisites: SED 350 and 352 and C&I 220 and 303. Admission to Teacher Education.

359 * TEACHING READING AND SCHOOL SUBJECTS TO DEAF AND HARD OF HEARING STUDENTS
3 sem. hrs.

Teaching reading and other core subjects to deaf and hard of hearing students at all grade levels. Prerequisite: SED 354. Concurrent registration in SED 245.10. Admission to Teacher Education.

360 SCHOOL COUNSELING
3 sem. hrs.

Backgrounds, philosophy, and services in school counseling programs. Conceptual models emphasize educational, developmental, and preventive approaches to planned change.

362 BASIC SKILLS IN COUNSELING
3 sem. hrs.

Introduction to and laboratory practice in the basic procedures and skills of counseling. Lecture and Laboratory.

363 FAMILY COUNSELING
3 sem. hrs.

Theories and techniques of child management, consultation procedures, parent and family education, and counseling.

370 INSTRUCTIONAL PROGRAMMING FOR STUDENTS WITH DISABILITIES
3 sem. hrs.

Procedures for determining individual behavioral needs, designing instructional sequences, implementing behavior change programs, and evaluating effects of programs for individuals with disabilities. May include Clinical Experiences; approx. 10-12 hrs.; Type 1-4.

372 EDUCATIONAL ASSESSMENT OF INDIVIDUALS WITH SEVERE AND PROFOUND DISABILITIES
3 sem. hrs.

Application of diagnostic skills to the assessment of severely and profoundly disabled individuals, designing individualized programs, and evaluating client progress and program effectiveness.

373 SPECIAL EDUCATIONAL INTERVENTION WITH PARENTS OF INDIVIDUALS WITH DISABILITIES
3 sem. hrs.

Theoretical and practical aspects of providing special educational intervention to parents of disabled learners. Prerequisites: Child Growth and Development; a teaching methods course, or equivalent.

374 EDUCATIONAL ASSESSMENT OF THE PRESCHOOL CHILD WITH DISABILITIES
3 sem. hrs.

Techniques and issues involved in gathering, analyzing and synthesizing data for developing and monitoring individualized programs for preschool children with disabilities. Prerequisites: SED 145 or equivalent.

375 ASSESSMENT AND PLANNING FOR DEAF AND HARD OF HEARING STUDENTS
3 sem. hrs.

Examines individual assessment tools and techniques appropriate for developing an individualized educational program for students who are deaf and hard of hearing. Prerequisites: PSY 234, SED 354, 355 and 359, or 359 concurrent registration required.

380 EMPLOYMENT ANALYSIS FOR INDIVIDUALS WITH DISABILITIES
3 sem. hrs.

Developing vocational/career education programs and synthesizing employment opportunities for students with disabilities. Materials charge optional.

385 PHYSICAL DISABILITIES: SURVEY AND REHABILITATION
3 sem. hrs.

Identification and treatment of physical disabilities in children; special services, equipment, and procedures for school programs. Prerequisite: BSC 381 or HPR 282. Includes clinical experiences approximately 16 hours, Type 1, 3, 6. Also offered as HPR 385.

400 INDEPENDENT STUDY
1-4 sem. hrs.

Prerequisite: Consent of the department chairperson.

410 EDUCATIONAL ASSESSMENT AND PLANNING FOR INDIVIDUALS WITH DISABILITIES
3 sem. hrs.

Assessing educationally relevant behaviors of exceptional pupils and developing specific educational plans based on assessed strengths and weaknesses.

411 SURVEY OF SPECIAL EDUCATION
3 sem. hrs.

Focus on the physiological, psychological, sociological and educational impact of disabilities on children, youth and adults. All areas of exceptionality studied.

421 NATURE AND NEEDS OF STUDENTS WITH LEARNING DISABILITIES
3 sem. hrs.

Educational characteristics, classification systems, theoretical approaches to etiology, assessment systems and services for children/youth with learning disabilities. Prerequisite: SED 411 or equivalent survey course.

422 TEACHING STUDENTS WITH LEARNING DISABILITIES
3 sem. hrs.

Curriculum, instructional objectives, methods and materials for educating children/youth with learning disabilities. Prerequisites: SED 421 or equivalent.

431 INDIVIDUALIZED FIELD WORK IN SPECIAL EDUCATION
2-6 sem. hrs.

Direct experience teaching individuals with disabilities. This course meets the preclinical hour requirements for certification but is not to be used as a substitute for STT 399. Approval for practicum sites and credits must be granted by the department chairperson. Can be repeated.

440 CONTEMPORARY ISSUES AND TRENDS IN SPECIAL EDUCATION
3 sem. hrs.

Advanced study of contemporary issues and trends in special education using a non-categorical approach. Prerequisite: SED 411 or equivalent.

445 CURRICULUM DEVELOPMENT FOR STUDENTS WITH SPECIAL NEEDS
3 sem. hrs.

Study of curriculum development, curricular modification and assessment of learning outcomes for students with disabilities and other special needs. Prerequisite: C&I 476 or equivalent.

446 SEMINAR IN SPECIAL EDUCATION AND REHABILITATION
2 sem. hrs.

Seminar in various areas of special education and rehabilitation.

447 ADMINISTERING EDUCATIONAL PROGRAMS FOR STUDENTS WITH DISABILITIES
3 sem. hrs.

Principles and problems involved in administration of educational programs for exceptional children. Also offered as EAF 447.

448 INSTRUCTIONAL PROCEDURES FOR STUDENTS WITH EMOTIONAL/BEHAVIOR DISORDERS
3 sem. hrs.

Assessing educational and behavioral needs of students and designing instructional and behavioral management programs. Prerequisites: PSY 347 or equivalent.

452 PARENT AND COMMUNITY INVOLVEMENT IN SPECIAL EDUCATION
3 sem. hrs.

Understanding parents of individuals with disabilities and their communities. Designing, implementing and facilitating programs which enhance involvement in special education.

460 APPRAISAL METHODOLOGIES FOR COUNSELORS
3 sem. hrs.

The administration and interpretation of individual and environmental assessment techniques appropriate to the student's setting and level of interest.

462 PRACTICUM IN COUNSELOR EDUCATION
3-9 sem. hrs.

Supervised experience in individual and/or small-group counseling or human services education. May be repeated for credit for a total of nine semester hours. Prerequisite: 21 semester hours of graduate work in Counselor Education degree program.

463 THEORY AND PRACTICE IN GROUP COUNSELING
3 sem. hrs.

Participation in a structured and nonstructured group experience with associated study of interpersonal relationships. Includes study of leadership styles, techniques, and interventions within framework of relevant theories. May be repeated for credit for a total of six semester hours.

464 THEORIES AND TECHNIQUES OF COUNSELING
3 sem. hrs.

Goals, methods, and procedures as seen from a number of differing theoretical positions. Emphasis on interpersonal dimensions of counseling interviews. Cross listed in CJS and PSY.

465 VOCATIONAL COUNSELING
3 sem. hrs.

Acquiring and using occupational and educational information. Consideration of job requirements and training opportunities; developing occupational units; nature of vocational development. Also offered as PSY 465.

466 COUNSELING IN HIGHER EDUCATION**3 sem. hrs.**

Problems and characteristics of counseling in community colleges, and other institutions of higher education.

469 CONSULTATION AND RESOURCE DEVELOPMENT IN HUMAN SERVICES**3 sem. hrs.**

Presentation of consultation as a preventive counseling intervention, emphasizing fundamental theoretical orientations, basic methods of program development, and related skills.

470 CONTEMPORARY TOPICS IN COUNSELOR EDUCATION**3 sem. hrs.**

Differing topical emphasis based upon the areas of student interest and current developments in Counselor Education. May be repeated for credit if topic and content are different.

471 LIFE STYLE AND CAREER DECISIONS**3 sem. hrs.**

Presentation of life style concepts and career decision making theory with emphasis on design and implementation of career development programs.

474 FOUNDATIONS OF HUMAN SERVICES EDUCATION**3 sem. hrs.**

Human services intervention skills and strategies linking service delivery and planned change.

482 SEMINAR IN SPECIAL EDUCATION RESEARCH**3 sem. hrs.**

Analysis of theoretical issues in special education through study of professional literature and research. Prerequisites: EAF 410 and SED 440.

498 PROFESSIONAL PRACTICE**3-8 sem. hrs.**

Refer to General Courses.

499 MASTER'S THESIS**1-6 sem. hrs.****500 INDEPENDENT STUDY****1-4 sem. hrs.**

Prerequisite: consent of department chairperson.

503 SEMINAR IN SPECIAL EDUCATION PROGRAM DESIGN AND DEVELOPMENT**3 sem. hrs.**

Application of program design and development strategies in special education. Prerequisites: Advanced degree standing and consent of instructor.

512 ADVANCED APPLIED RESEARCH IN SPECIAL EDUCATION**2 sem. hrs.**

For advanced graduate students preparing to conduct research in school and related settings. Prerequisites: EAF 510. May be repeated with consent of instructor.

513 SEMINAR IN EVALUATION OF SPECIAL EDUCATION PROGRAMS**2 sem. hrs.**

Prepares personnel to evaluate the effectiveness of special education programs. Prerequisites: Admitted to doctoral program in Special Education, consent of instructor.

514 PERSONNEL PREPARATION IN SPECIAL EDUCATION**3 sem. hrs.**

An introduction to processes and applied practice in curriculum development, instruction, supervision, advisement, evaluation, and professional development for preservice and inservice education in special education. Prerequisite: Advanced degree standing.

540 SEMINAR IN CONTEMPORARY TOPICS IN SPECIAL EDUCATION**3 sem. hrs.**

Contemporary topics related to issues of identification, assessment, intervention and other problem areas. Prerequisites: SED 440, and/or consent of instructor.

547 SEMINAR IN ADVANCED MANAGEMENT OF SPECIAL EDUCATION PROGRAMS**3 sem. hrs.**

An advanced seminar in the coordination of special education programs in educational settings. Emphasis is on the administrative skills and knowledge required to design and implement programs consistent with established public policy in the subject area. Topics include: planning for special education programs, program development, program operation and management, staff selection and development, the federal-state-local system of services, budgeting and fiscal management, and program evaluation and reporting. Prerequisites: SED 447; EAF 478, 479 or consent of instructor.

593 RESIDENT SEMINAR**1 sem. hr.**

Contemporary treatment of field issues and professional development needs for advanced resident graduate students in Special Education. Available as 593.01 Applied Research in Special Education; 593.02 Grant Proposal Development; 593.03 Computer Applications in Special Education; 593.04 Policy and Legal Issues in Special Education; and 593.05 Professional Development. Prerequisites: Admission to Doctoral Program in Special Education.

594 RESEARCH SEMINAR IN EDUCATION**3 sem. hrs.**

Designed for dissertation proposal development for doctoral students. Emphasis on the design of a proposal ready for committee consideration.

598 PROFESSIONAL PRACTICE**1-12 sem. hrs.**

Provides doctoral students with an opportunity to integrate academic coursework with role expectations of professional personnel. Available as 598.01 Professional Practice in Teacher Preparation; 598.02 Professional Practice in Applied Research; and 598.03 Professional Practice in Program Administration. Prerequisites: Admission to the Doctoral Program in Special Education.

599 DISSERTATION RESEARCH**Variable credit**

Research relating to research requirements for Doctor of Education degrees. Approval of the chairperson of the department of the program in which the student is enrolled is required.



COLLEGE OF FINE ARTS

Dean: Alvin Goldfarb. Office: Room 116 Center for Visual Arts

The primary function of the College of Fine Arts and its Departments of Art, Music, and Theatre is to provide professional education in the arts for students desiring professional careers in select areas of the arts and for students preparing to be elementary, secondary, and college teachers. Various areas of concentration and degree programs in undergraduate and graduate studies, including M.M., M.A., M.S., M.M.Ed. and M.F.A. programs provide flexible curricula for a variety of student talents and research interests. The College also provides a cultural environment through the performing and visual arts for the campus, community, and region.

ART

Chairperson: Ronald Mottram. Office: Center for the Visual Arts Room 119.

Director of Graduate Studies: Robert Stefl.

Graduate Faculty: S. Amster, F. Anderson, S. Appel, W. Archer, G. Atterberry, P. Blum, H. Boyd, J. Butler, R. Finch, L. Fisher, D. French, R. George, K. Holder, A. Iorio, R. Jackson, W. Jacob, D. Kilgo, K. Knoblock, C. Kukla, T. Malone, R. McKinney, R. Mottram, J. Myers, M. Newby, S. Rankin, R. Stefl, J. Suhr, D. Tell, N. Towner, J. Walker.

The Department offers work leading to the following degrees: M.A., M.S., and M.F.A. General University requirements for degrees are described elsewhere in this catalog. The Department reserves the right to keep examples of original work produced by graduate students for its permanent collection of student art work.

Master's Degree Programs

The master's degree in Art requires a minimum of 32 hours including a master's thesis or a comprehensive examination. A candidate for the degree must spend at least one full term in residence in order to qualify for the degree. A full term may be interpreted as one semester with a class load of 9-15 hours, or a summer session with a class load of 6-9 hours.

To enter one of four available master's options the applicant must meet the minimum requirements of the Graduate School and pass a portfolio review in the Department. (Portfolios are to be sent to the Director of Graduate Programs, c/o the Art Department.)

Students applying to Art Education or Art Therapy are required to submit a portfolio containing a) at least three examples of writing, b) documents of independent accomplishments or professional activities, c) examples of artwork and/or examples of work by the applicant's students, and d) at least two letters of recommendation (to be sent directly to the Graduate Coordinator) by people familiar with the applicant's academic or professional performance.

For entering the Studio option, the portfolio must include examples of artwork (slides are preferred), and one example of scholarly writing.

Students applying to Art History are required to submit a portfolio containing at least three papers illustrating research and writing skills, and at least two letters of recommendation (to be sent directly to the Graduate Coordinator) by people familiar with the applicant's character and academic performance.

Program Requirements

All students pursuing master's degrees in Art must complete a core requirement of three courses: Art 495 Graduate Seminar in Art History, Art 497 Introduction to Research Methodology, and Philosophy 339 Topics in the Philosophy of Art. Graduate students also select one of the following sequences, which have additional specified requirements.

Sequence in Art Education

401 Foundations of Art Education	3 hours
402 Issues in Art Education	3 hours
403 Curriculum in Art Education	3 hours
Electives in courses and/or Special Projects in Art Education	6 hours
Total	15 hours

The rest may be chosen from a wide range of fields which are relevant to art or education and which reflect the student's interests. Some examples are: an area of Studio Art, Curriculum, Psychology, Special Education, Community Art Programs, College Level Art, and Humanities. A comprehensive examination or thesis is required of each student at the end of the program.

Concentration in Art Therapy

Art Therapy is a Concentration within the Sequence in Art Education. Specific plans of study should be developed in concert with the graduate program adviser in art therapy. For the Concentration in Art Therapy it is suggested that students select 9 hours from the following: Art 407 Foundations of Art Therapy, Art 408 Art Therapy Interventions: Special Populations, Art 409 Clinical Approaches to Art Therapy, Art 410 Art-Based Assessments and Methodologies in Art Therapy, Art 414 Art Therapy Approaches in Treating Sexual Abuse, and Art 415 Ethical, Legal and Multicultural Aspects of Art Therapy.

Students wishing to fulfill the 1993 Guidelines for Education and Training of the American Art Therapy Association must take 21 hours of art therapy coursework, have 50 to 100 hours of fieldwork in art therapy (Art 444.12 Problems in Studio Work 2-6 hours), and do a 600 hour practicum (Art 498.12 Co-op/Internship in Art Therapy 2-6 hours).

Sequence in Art Studio

Each student is expected to complete a concentration in one of the following disciplines: painting, sculpture, printmaking, ceramics, fibers, metalwork and jewelry design, photography, drawing, or glass. Although a program is developed in consultation with an adviser and can be tailored to the student's interests, a typical program includes at least 15 hours of 444 Problems in Studio Work (in one of the above studio areas) and 3 hours of 451 Special Projects in Art. Three hours of Art History, in addition to the M.A./M.S. core courses, are required. A graduate exhibition, as part of the comprehensive examination, is required at the end of the program.

Sequence in Art History

A sequence in Art History requires at least 15 hours of coursework in Art History (of these 9 must be at the 400 level), at least 3 hours in a related field outside the Department (history, literature, anthropology, etc.), and 4-6 hours of 499 Thesis. Only the M.A. is offered in Art History Sequence. Students who have not satisfied the language requirement before entering the program must do so as early as possible while pursuing the program.

Master of Fine Arts

The Master of Fine Arts in Art is a 60-hour program that emphasizes both theory and practice in the production, history, and teaching of the visual arts. Candidates will be expected to demonstrate artistic proficiency in at least one of the following disciplines: painting, sculpture, printmaking, ceramics, fibers, metalwork and jewelry design, photography, drawing, or glass. Candidates will also be expected to demonstrate an ability to communicate ideas in a written and oral manner.

Students may also participate in an experience of internship or apprenticeship. This may take the form of a guided teaching experience or work in a professional area related to the student's area of interest. (Conceivably this might involve local industry, school, etc.) The exact nature of this experience will be worked out through counseling between the major adviser and the student and will be tailored to best suit the needs of each student. This project will be subject to approval of the student's graduate committee.

It should be clearly understood that the accumulation of 60 semester credit hours is not the primary criterion in evaluating final achievement. Instead, it is the exhibition and demonstration of the student's competency and his/her intellectual maturity and that these expectations be deemed proficient in his/her area of the arts. In view of this, a major requirement will be a comprehensive showing of the student's visual work along with a written project and an oral examination of the intellectual implications of his/her work.

A typical program for the Master of Fine Arts degree will include at least 60 semester hours of graduate work beyond the bachelor's degree. These 60 hours may be programmed as follows:

- A. At least 36 semester hours must be taken in the Art Department, of these at least 24 must be at the 400 level.
- B. At least 24 semester hours must be in the student's major studio area, of these at least 18 must be at the 400 level.
- C. At least 12 semester hours must be taken in art history, or nine hours may be taken in art history with three hours in related areas such as aesthetics, philosophy, or anthropology, or MFA Seminar.
- D. At least three hours of MFA Seminar. Taking the MFA Seminar under heading "C" does not substitute for this requirement.
- E. Six hours of 496 M.F.A. Exhibition and Supportive Statement. This will involve a comprehensive exhibition of studio work, an exhibition-related written project, and a comprehensive oral examination. Candidacy review must take place before a student can enroll in Art 496 or schedule the MFA exhibition and must include approval of proposal for the supportive statement.

Concentration in Art Technology

Students who wish to augment their regular programs with computer-related knowledge and skills may pursue a special program leading to a concentration in art technology. The concentration is available to students in any of the Art Department's graduate programs: M.A., M.S. and M.F.A.

To meet the requirements of the concentration, the student must complete 9 hours from the following offerings (ART 359, ART 387, ART 388, ART 498), in addition to an exit project. The exit project may be performed in conjunction with a regular exit requirement in one of the Art Department's graduate programs.

Courses

307 ART FOR ATYPICAL INDIVIDUALS 3 sem. hrs.

Study of various approaches to the development and conduct of art activities for individuals in special education and other community programs for the atypical individual. Prerequisite: C&I 250. Includes Clinical Experiences; 10 hrs.; Types 1-7, and 9.

309 PROFESSIONAL ART EDUCATION SEQUENCE 6 sem. hrs. (3 each semester)

Sequential semesters interrelate art learning theory, teaching methodology, and pre-student teaching clinical experiences in Art Education K-12. Not for credit if had Art 203 or 204. For Art Education majors, others by consent of department chairperson. Two consecutive semester sequence. Prerequisites: C&I 216 or concurrent registration.

315 TOPICS IN GRAPHIC DESIGN 3 sem. hrs.

Studio/seminar course covering special topics related to graphic design. May be repeated if content different. Prerequisite: ART 227.

324 METALWORK AND JEWELRY DESIGN III 2-6 sem. hrs.

Advanced metalworking with an emphasis on volume and color, including raising, repousse, forging and various enameling techniques. Prerequisite: ART 225. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

325 ADVANCED METALWORK AND JEWELRY DESIGN 2-4 sem. hrs.

Elaboration upon metalworking skills previously acquired, allowing development of a strong personal direction. Prerequisite: ART 324 and consent of instructor. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

326 GRAPHIC DESIGN III 3 sem. hrs.

Transitional course using the skills, techniques, and concepts learned earlier, applying them to problems of contemporary expression. Preparation for study on independent basis. Prerequisites: ART 226, 227. Materials charge optional.

328 CERAMICS III 2-6 sem. hrs.

Experiences in wheel and handbuilding processes with an emphasis on individual exploration of ideas through ceramic media. Prerequisite: ART 229. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

331 ADVANCED DRAWING 1-3 sem. hrs.

Transitional course using the skills, techniques, and concepts learned earlier, applying them to problems of contemporary expression. Preparation for study on independent basis. Prerequisite: Art 214. May be repeated.

332 SCULPTURE III 2-6 sem. hrs.

Transitional course. Individualized problems exploring techniques and concepts encountered earlier and their application to problems of contemporary expression. Preparation for study on an independent basis. Prerequisite: ART 233. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

334 TOPICS IN ADVANCED SCULPTURE**3 sem. hrs.**

An advanced sculpture course focusing on a different topic each semester. Seminar format with topics relating to assigned studio work. Prerequisite: Sculpture I, II, III, or consent of instructor. Materials charge optional.

335 PHOTOGRAPHY III**2-6 sem. hrs.**

Advanced problems in photography as an art form. Emphasis upon individual exploration of the medium. Prerequisite: ART 236 or consent of instructor. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

336 GRAPHIC DESIGN IV**3 sem. hrs.**

Advanced studio work exploring design techniques applied to advertising, packaging and display media. Materials fee optional. Prerequisite: ART 326.

340 FIBERS III**2-6 sem. hrs.**

Advanced studio work based on the technical and aesthetic concepts presented in Weaving I & II. Emphasis upon individualized projects designed in consultation with instructor. Prerequisite: ART 241. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

344 WOOD II**3 sem. hrs.**

Studio exploration of wood as a medium of personal expression. Prerequisite: ART 234.

345 INTAGLIO II**2-6 sem. hrs.**

Further study of intaglio processes with greater emphasis on intaglio as an expressive medium. Introduction to color possibilities. Prerequisite: ART 245. May be repeated. Materials charge optional.

346 LITHOGRAPHY II**3 sem. hrs.**

Further study of lithographic processes with greater emphasis on lithography as an expressive medium. Introduction to color possibilities. May be repeated. Prerequisite: 246. Materials charge optional.

349 VISITING ARTIST SEMINAR**2 sem. hrs.**

A seminar-type class taught by visiting artists and members of the Art department faculty, focusing upon contemporary issues of fine arts and the creative process. May be repeated.

351 SPECIAL PROJECTS IN ART**2-6 sem. hrs.**

Special projects in art or art education chosen by the student for advanced investigation with the approval of the instructor. May not duplicate existing courses. Consent of instructor required. May be repeated. Variable credit. Amount of performance per credit to be determined by contract with instructor. Materials charge optional.

352 RENDERING FOR INTERIOR DESIGNERS**3 sem. hrs.**

Perspective sketching and delineations of architectural interiors. Various media and application techniques will be stressed for professional results in presentations. Prerequisites: ART 103 and 104, or consent of instructor.

355 GLASS II**2-6 sem. hrs.**

Further practice in glass blowing skills coupled with the introduction of techniques to alter and shape cold glass. Prerequisite: ART 255. May be repeated. Materials charge optional. Variable credit. Amount of performance per credit to be determined by contract with instructor.

356 COLOR PHOTOGRAPHY**3 sem. hrs.**

An advanced class creating color photographs which addresses issues and theory in contemporary photography as a fine art. Prerequisite: ART 335 or consent of instructor.

358 SOCIAL DOCUMENTARY PHOTOGRAPHY**3 sem. hrs.**

Studio practice in social documentary photography. An examination of the artist's role as social observer and documentarian. Prerequisite: consent of instructor.

359 COMPUTER-BASED ART AND GRAPHIC DESIGN**3 sem. hrs.**

Application of advanced two- and three-dimensional graphics programs to solve creative problems in the visual and theatrical arts. Prerequisite: ART 386 or MUS 386 or THE 386 or consent of instructor. Also offered as THE 359. Materials charge optional.

361 PAINTING IV**2-6 sem. hrs.**

Transitional course. Student encouraged to explore personal directions in close consultation with instructor. Preparation for study on an independent basis. Prerequisite: ART 263. May be repeated. Variable credit. Amount of performance per credit to be determined by contract with instructor.

362 WATERCOLOR I**3 sem. hrs.**

Watercolor as an expressive medium. Techniques, study of masters of watercolor, emphasis on creating pictorial space by illusion, color and the use of transparency. Prerequisite: ART 261.

363 COLOR THEORY**3 sem. hrs.**

A practicum to give the studio art student a context of theoretical and historical color premises as a basis for making color-organized works. Discussion of student work, process, color-formed space and aesthetic analyses. Prerequisite: ART 261.

366 ART OF THE ANCIENT NEAR EAST**3 sem. hrs.**

Art and architecture of early civilizations of Egypt, Mesopotamia, and peripheral areas from circa 8000 B.C. to circa 300 B.C. Prerequisite: ART 155 or consent of instructor.

367 GREEK ART**3 sem. hrs.**

Greek art and architecture from ca. 1500 B.C. through the Hellenistic period. Prerequisite: ART 155 or consent of instructor.

368 ROMAN ART AND ARCHITECTURE**3 sem. hrs.**

Roman art and architecture in Italy and the provinces from the late Republic through the early fourth century A.D. Prerequisite: ART 155 or consent of instructor.

369 HISTORY OF MEDIEVAL ART AND ARCHITECTURE**3 sem. hrs.**

Art and architecture of Europe from circa A.D. 500 to the Renaissance. Prerequisite: ART 155 or consent of instructor.

372 MODERN ARCHITECTURE**3 sem. hrs.**

European and American architecture since the Industrial Revolution, later 18th century to the present.

375 ITALIAN RENAISSANCE ART**3 sem. hrs.**

Painting, sculpture, and architecture of the 15th and 16th centuries in Italy.

376 NORTHERN RENAISSANCE ART**3 sem. hrs.**

Art and architecture of the Renaissance and Mannerism in Northern Europe.

377 HISTORY OF BAROQUE AND ROCOCO ART**3 sem. hrs.**

Painting, sculpture, and architecture of Europe during the 17th century.

378 HISTORY OF 19TH CENTURY ART AND ARCHITECTURE**3 sem. hrs.**

Concentration is centered on the art of Europe from the French Revolution to the 20th century.

379 MODERN ART**3 sem. hrs.**

Painting and sculpture in Europe and America from the late 19th century to 1970.

380 ART IN THE UNITED STATES I: COLONIAL-19TH CENTURY ROMANTICISM**3 sem. hrs.**

Art and architecture in the part of North America that became the United States from the outset of European colonization through the Early Republic, circa 1600 to 1825.

381 ART IN THE UNITED STATES II: AMERICAN IMPRESSIONISM- WORLD WAR II**3 sem. hrs.**

Art and architecture in the United States from about 1825 to 1930.

382 ART IN THE UNITED STATES III: FROM THE DEPRESSION TO 1970**3 sem. hrs.**

Complex developments, especially in painting and sculpture, which occurred in American art from the Depression era to 1970.

383 HISTORY OF PHOTOGRAPHY**3 sem. hrs.**

Study of important photographers and the major aesthetic and technical developments of photography from 1840 to the present.

385 RECENT DEVELOPMENTS IN ART: 1970 TO THE PRESENT**3 sem. hrs.**

An examination of major international visual artists and the role of public and private institutions within the contemporary arts world. Prerequisites: Art major only or consent of instructor. Previous successful completion of ART 257.

387 SOFTWARE DESIGN IN THE ARTS**3 sem. hrs.**

Designing and programming microcomputer based software which solve particular applications problems in the fine arts. Prerequisite: Consent of instructor. Also offered as MUS 387 and THE 387. Materials charge optional.

388 SELECTED TOPICS IN ARTS TECHNOLOGY**3 sem. hrs.**

Varied emphasis reflecting integration of computers with digital sound/graphic technologies and authoring tools for applications in the arts. May be repeated if content different. Prerequisite: ART 386 or consent of instructor. Also offered as MUS 388 and THE 388. Materials charge optional.

401 FOUNDATIONS OF ART EDUCATION**3 sem. hrs.**

A study of the historical and philosophical foundations of art education.

402 ISSUES IN ART EDUCATION**3 sem. hrs.**

Problems in art education from the point of view of research and critical inquiry. May be repeated once.

403 CURRICULUM IN ART EDUCATION**3 sem. hrs.**

Examination of various art curriculum schemes K-14: philosophies, content, methods, research, and evaluation. Prerequisite: Teaching experience or consent of instructor.

407 FOUNDATIONS OF ART THERAPY**3 sem. hrs.**

Overview of historical and theoretical approaches to the field of art therapy from the 1920's to the present.

408 ART THERAPY INTERVENTIONS: SPECIAL POPULATIONS**3 sem. hrs.**

Art therapeutic strategies for persons with handicapping conditions including adaptive strategies. Relevant research, assessment strategies, development of treatment plans. Prerequisite: ART 407 and permission of instructor.

409 CLINICAL APPROACHES TO ART THERAPY**3 sem. hrs.**

Clinical approaches to group, family, adolescent and child art therapy including special population issues. Field work applications. Prerequisite: ART 407, 408, and permission of instructor.

410 ART-BASED ASSESSMENTS AND METHODOLOGIES IN ART THERAPY**3 sem. hrs.**

Art-based assessments, evaluations and methodologies appropriate for art therapy, including the study of symbols of psychopathology. Prerequisites: ART 407, 408, and consent of instructor.

412 READINGS IN ART EDUCATION**3 sem. hrs.**

Familiarization with studies and writings on the nature of art and artistic behavior.

414 ART THERAPY APPROACHES IN TREATING SEXUAL ABUSE**3 sem. hrs.**

Art therapy intervention strategies for children and adults who have been sexually abused. Prerequisite: graduate standing and consent of instructor.

415 ETHICAL, LEGAL AND MULTICULTURAL ASPECTS OF ART THERAPY**3 sem. hrs.**

An examination of ethical, legal and multicultural issues in the art therapy field including expert witness procedures and legal aspects of diagnosis and treatment. Prerequisites: ART 407, 408, 409, and consent of instructor.

**421 PROBLEMS IN TEACHING ART IN
HIGHER EDUCATION****2-5 sem. hrs.**

Opportunity for observation, participation, and teaching at the college level. Assignments are made with the approval of the department chairperson at least two months prior to registration.

444 PROBLEMS IN STUDIO WORK**2-6 sem. hrs.**

Individual creative work in painting, sculpture, printmaking, ceramics, weaving, jewelry, design, photography, drawing, or glassblowing. May be repeated. Must have permission of instructor. Variable credit. Amount of performance per credit to be determined by contract with instructor. Materials charge optional.

451 SPECIAL PROJECTS IN ART**2-6 sem. hrs.**

An individual project in a particular discipline—art education, an area of studio art, or art history—chosen and planned by the student with approval of qualified instructor. May be repeated if material covered is not duplicated. Variable credit. Amount of performance per credit to be determined by contract with instructor. Materials charge optional.

**491 INTERNSHIP IN COLLEGE
TEACHING IN ART****3 sem. hrs.**

Credit for the course is given in C&I (see C&I 491).

494 MFA SEMINAR**3 sem. hrs.**

A forum for exploring, jointly, art-related ideas and issues relevant to the studio arts. Emphasis on analytical and writing skills. Prerequisite: MFA students in the visual arts, or consent of department chair. May be repeated once for credit.

495 GRADUATE SEMINAR IN ART HISTORY**3 sem. hrs.**

Intensive study of an announced topic in art history with emphasis on methodology, original research and various art historical approaches. Prerequisites: Successful completion of at least one 300-level art history course and consent of instructor required. May be repeated if content differs.

**496 M.F.A. EXHIBITION AND
SUPPORTIVE STATEMENT****1-6 sem. hrs.**

Comprehensive exhibition of studio work, an exhibition-related written project, and a comprehensive oral examination. M.F.A.s only.

**497 INTRODUCTION TO RESEARCH
METHODOLOGY****3 sem. hrs.**

Introduction and survey of bibliography, methods of scholarly research, and critical evaluation of research and writings in the field.

**498 INTERNSHIP/COOPERATIVE
EDUCATION IN ART****1-6 sem. hrs.**

Available as 498.12 Co-op/Internship for Art Therapy, 1-6 sem. hrs. Refer to General Courses.

499 MASTER'S THESIS**1-6 sem. hrs.****MUSIC (MUS)**

Chairperson: Arved Larsen. Office: Centennial East 230.

Graduate Faculty: G. Block, J. Boitos, P. Borg, A. Chavez, A. Corra, J. Dawson, M. Dicker, M. DiGiammarino, A. Favis, S. Gentry, M. Kelly, A. Larsen, A. Lewis, A. Major, M. Nicholas, B. Pomfret, D. Poultney, K. Randles, S. Steele, D. Williams.

The music department offers work leading to the Master of Music or to the Master of Music Education degree. Admission to the Master's degree programs requires a minimum undergraduate cumulative GPA of 2.6 with a GPA of 3.0 in music courses. Candidates must also submit three professional letters of recommendation and present a performance audition (tape recording may be submitted for provisional admission). Specific sequence options require the following for consideration for admission:

M.M. degree

Music Therapy sequence: An undergraduate degree in music and certification as a Registered Music Therapist or equivalent, including the six-month internship.

Performance sequence: A personal audition of approximately thirty minutes duration covering appropriate styles, genres, and historical periods.

Theory/Composition sequence: Submit three papers (comparable to "term papers" written for undergraduate courses) on topics of music theory OR submit scores of three completed original compositions which give evidence of knowledge of forms and orchestration.

M.M.Ed. degree

An undergraduate degree in music education or equivalent and certification to teach music in one of the fifty states.

Prior to the beginning of the first semester of residence all students must take placement examinations in the areas of theory, history and literature. Students must meet with the graduate Coordinator/Adviser upon entrance.

Program Requirements**All Degrees**

Music 396

Performing Organization: Perform in the appropriate Department of Music performing organization for a minimum of 2 semester hours (MUS 481-488 and selected 439) with exceptions or further requirements according to sequence requirements described below.

M.M.Ed.

MUS 459, 470

M.M.

MUS 457, MUS 459 (Music Therapy) or MUS 458 (all other sequences) one additional Styles course from 391, 392, 394, or 395.

Music Therapy sequence 18 hrs. MUS 460, 462, 465, and 498.02 (3 hrs.) and 6 hours in supportive field subjects: 300- and 400-level courses selected from, but not limited to, the fields of psychology, education, speech pathology and audiology, sociology, and social work. Music Therapy courses at the 300 level may not be included as part of the master's sequence.

Entrance into the music therapy sequence assumes student has completed or will complete equivalency requirements for music therapy registration. Equivalency includes a degree in music and the following courses (or their substitutes): MUS 194, 294, 340, 341, 360, 362, 398. Depending upon the courses taken at the undergraduate level, a student may need to take the following: 9 hours selected from MUS 111, 113, 115, 117, 122, 126; BSC 181; PSY 111, 232, 346; and SOC 106 or ANT 180 (see Undergraduate Catalog for description of these courses). Students enrolled for 6 hours or more in any semester are required to register for credit and perform in the appropriate Department of Music performing organization; exceptions can be made only with permission of Graduate Coordinator.

Performance sequence 14-18 hrs. MUS 430-438 or 440 (12 hours minimum), 330 or 309, electives in performance or conducting. At least one semester of chamber music performing experience must be included in the fulfillment of the performing organization requirement as described above for string and wind instrument majors. Students wishing to take graduate applied music must audition in the specific performance area. Students whose performance area is voice must demonstrate diction proficiency in English, French, German, and Italian through an oral reading examination. Students enrolled for 6 hours or more in any semester are required to register for credit and perform in the appropriate Department of Music performing organization; exceptions can be made only with permission of Graduate Coordinator.

Theory/Composition sequence 12 hrs. MUS 305 or 405, 402, 464, and one elective in theory or composition. Students enrolled for 9 hours or more in any semester are required to register for credit and perform in the appropriate Department of Music performing organization; exceptions can be made only with permission of Graduate Coordinator.

Music Education (M.M.Ed. degree) 20 hrs. MUS 471, 472, 473, electives in Music (4 hours), and concentration hours (8 hours). Students are required to design a secondary area of concentration in consultation with a graduate adviser. Areas may include (but not be limited to) the following: Conducting, Jazz, Special Education, Music Technology, Research, Arts Administration, Music Education (choral, general, instrumental), Psychology of Music, Musical/Opera Production, Music Therapy, Applied Music. This degree has a plan of study available to graduate students enrolled during summer terms only. Students enrolled for 9 semester hours or more are required to register for credit and perform in the appropriate Department of Music performing organization.

All sequences require the successful completion of a comprehensive review. In addition, the following exit requirements are specified for Music master's degrees:

M.M. degree

Music Therapy sequence: take a written comprehensive examination and complete a thesis (MUS 499) for a minimum of 4 hours or a clinical project (MUS 498.12) for a minimum of 3 hours.

Performance sequence: perform two recitals. (MUS 496)

Theory/Composition sequence: write a thesis; or create an original composition.

M.M.Ed. degree

Take a written comprehensive examination, and complete a thesis (MUS 499) for a minimum of 4 hours, or complete a project (498.01) for a minimum of 2 hours, or complete 4 additional hours to complete a non-thesis degree.

Concentration in Music Technology

Students who wish to augment their regular programs with computer-related knowledge and skills may pursue a special program leading to a concentration in music technology. The concentration is available to students in any of the Music Department's graduate programs: M.M. or M.M.Ed.

To meet the requirements of the concentration, the student must complete 9 hours from the following offerings (MUS 387, MUS 388, MUS 498, MUS 491 or ART 359), in addition to an exit project related to music technology. The exit project may be performed in conjunction with a regular exit requirement in one of the Music Department's graduate programs.

Courses

305 COMPOSITION

3 sem. hrs.

Free composition in larger forms. May be repeated for credit.

307 SURVEY OF MUSIC THEORY

2 sem. hrs.

Review of analytical techniques and procedures. Emphasis on tonal music.

330 PEDAGOGY AND LITERATURE

2 sem. hrs.

Methods of teaching class and individual instruction; emphasis on techniques and a comparison of various teaching procedures. Survey of important literature and composers for each medium. (Brass, woodwind, percussion, voice, strings, piano, organ, guitar). May be repeated for credit. More than one area may be taken concurrently.

340 INFLUENCE OF MUSIC UPON BEHAVIOR

3 sem. hrs.

A study of the cultural, physiological, and psychological aspects of music with applications to the music therapy field. Prerequisite: Consent of instructor.

341 MUSIC IN THERAPY

3 sem. hrs.

A study of the theory, current practices, and research in the field of music therapy. Prerequisite: MUS 340 or consent of instructor.

360 INTRODUCTION TO PSYCHOMUSICOLOGY

3 sem. hrs.

An introduction to the psychology of music behavior and cognition. Topics include music perception, memory, and learning and their relation to the sensory, formal, and expressive properties of music.

365 OPERA PRACTICUM

1 sem. hr.

Practical experience in the staging of an opera or musical, with work ranging from set construction to leading roles. May be repeated for credit.

371 MUSIC FOR THE EXCEPTIONAL CHILD

3 sem. hrs.

Trends in music education for exceptional children. Techniques and materials for a functional program of singing, playing, listening, and creative activities.

384 OPERA PRODUCTION

3 sem. hrs.

Problems of presenting specific representative works from music theatre repertoire. Prerequisite: Consent of instructor. May be repeated for credit.

387 SOFTWARE DESIGN IN THE ARTS**3 sem. hrs.**

Designing and programming microcomputer based software which solve particular applications problems in the fine arts. Prerequisite: Consent of instructor. Also offered as ART 387 and THE 387. Materials charge optional.

388 SELECTED TOPICS IN ARTS TECHNOLOGY**3 sem. hrs.**

Varied emphasis reflecting integration of computers with digital sound/graphic technologies and authoring tools for applications in the arts. May be repeated if content different. Prerequisite: MUS 386 or consent of instructor. Also offered as ART 388 and THE 388. Materials charge optional.

391 MUSICAL STYLES OF THE RENAISSANCE PERIOD**3 sem. hrs.**

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 253.

392 MUSICAL STYLES OF THE BAROQUE PERIOD**3 sem. hrs.**

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 253.

394 MUSICAL STYLES OF THE CLASSICAL PERIOD**3 sem. hrs.**

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 254.

395 MUSICAL STYLES OF THE ROMANTIC PERIOD**3 sem. hrs.**

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 254.

396 MUSICAL STYLES OF THE TWENTIETH CENTURY**3 sem. hrs.**

An analytical inquiry into the compositional techniques evidenced in selected, representative works by major composers of the period. Prerequisite: MUS 254.

402 CURRENT ANALYTICAL TECHNIQUES**3 sem. hrs.**

Study and application of analysis systems including those of Schenker, Hindemith, information theory, set theory, and computer analysis. Prerequisite: MUS 307 or acceptable proficiency on theory placement examination.

405 COMPOSITION**3 sem. hrs.**

Advanced individual study and direction in music composition at the graduate level. May be repeated for credit. Prerequisite: MUS 305 or consent of instructor.

427 ADVANCED VOCAL PEDAGOGY**3 sem. hrs.**

Advanced techniques and materials for studio voice teaching; voice evaluation and study plans for voice students. Prerequisite: MUS 330.70 or equivalent.

430-438, 440 APPLIED MUSIC**2 or 3 sem. hrs.**

Advanced individual study and direction in music performance at the graduate level. 430 Conducting, 431 Brass, 432.10 Harp, 434 Percussion, 435 Piano, 436 Strings, 436.80 Guitar, 437 Voice, 438 Woodwinds, 440 Piano accompanying. May be repeated for credit. Permission to enroll must be obtained from appropriate coordinator.

439 ENSEMBLE**1 sem. hr.**

Study and performance of chamber music in any suitable combination of instruments or voices. May be repeated for credit. Prerequisite: audition and consent of instructor.

450 COMPREHENSIVE SURVEY OF WESTERN MUSIC**3 sem. hrs.**

Intensive study of the significant trends, genres, and composers of Western music history. Music majors only. Credits not counted towards any master's degree in music.

451 SELECTED TOPICS IN MUSICOLOGY**3 sem. hrs.**

A variable content course covering the music of a composer, a country, a style, a medium, a genre. May be repeated for credit with different content; maximum of nine hours to be counted toward a degree.

457 INTRODUCTION TO BIBLIOGRAPHIC METHODS OF MUSIC RESEARCH**3 sem. hrs.**

Critical examination of dictionaries, encyclopedias, catalogues, and other aids to research.

458 APPLICATION OF HISTORICAL RESEARCH METHODS TO MUSIC**3 sem. hrs.**

Bibliographic research methods in music applied to individualized historical and analytical research topics. Prerequisite: MUS 457 or consent of instructor.

459 APPLICATION OF SYSTEMATIC RESEARCH METHODS TO MUSIC**3 sem. hrs.**

Systematic research methods in music applied to individualized descriptive and experimental music research topics and critical evaluation of music research.

460 RESEARCH IN MUSIC THERAPY**3 sem. hrs.**

Study of single subject design tradition with emphasis on appropriate employment of repeated measurement techniques.

461 SEMINAR IN MUSIC EDUCATION**3 sem. hrs.**

Study of educational theory in relation to current and persistent issues in music education.

462 SEMINAR IN MUSIC THERAPY**3 sem. hrs.**

Study of current practices in the music therapy field with emphasis on current literature and new directions.

465 CLIENT RIGHTS IN MUSIC THERAPY**3 sem. hrs.**

Study of necessary legal systems to ensure the rights of clients receiving rehabilitative and educational services.

**470 FOUNDATIONS OF AMERICAN
MUSIC EDUCATION**
2 sem. hrs.

Sociological and philosophical evolution in music education. Development of familiarity with the literature and investigative skills in the discipline.

**471 MEASURING AND EVALUATING
MUSIC BEHAVIOR**
2 sem. hrs.

Study of measurement theory, standardized tests, test construction and interpretation. Measurement of music aptitude, achievement, performance, aesthetic response, preference, appreciation.

**472 SIGNIFICANT DEVELOPMENTS
IN MUSIC EDUCATION CURRICULA**
3 sem. hrs.

Study of catalysts for curricular change throughout all aspects of music education. Reform, content and objectives, evaluation, human rights, technology.

473 PSYCHOLOGY OF MUSIC LEARNING
3 sem. hrs.

Detailed study of topics concerning differential music behavior and perception. Includes the mechanics of hearing, music memory, learning, and responses.

481-488 PERFORMING ORGANIZATIONS
1 sem. hr.

Participation at the graduate level in the major organizations: Wind Symphony, Concert, University, or Marching Band, 481; Symphony Orchestra, 482; Chamber Wind Ensemble, 483; Concert Choir, 484; Treble Choir, 486; Civic Chorale, 488. May be repeated for credit.

**491 INTERNSHIP IN COLLEGE
TEACHING IN MUSIC**
3 sem. hrs.

Credit for the course is given in C&I (see C&I 491).

495 PRACTICUM IN CONDUCTING
2 sem. hrs.

An inservice conducting experience with community and university ensembles for graduate students involved in applied conducting. May be repeated for credit; maximum of nine hours to be counted toward a degree. Prerequisite: Applied Conducting, MUS 430.

496 RECITAL
2 sem. hrs.

A public performance in the student's principal applied area of instruction. Course may be repeated once. Consent of Graduate Adviser required.

498 PROFESSIONAL PRACTICE IN MUSIC
1-3 sem. hrs.

Provides graduate students with the opportunity to obtain supervised work experience in music. Available as 498.01 Music Education, 498.02 Music Therapy Internship for 1 sem. hr. (may be repeated to a maximum of 4 hours), 498.03 Music Business for 1-3 sem. hrs., or 498.12 Music Therapy Clinical Project for 3 hrs. (MUS 398 and project committee consent are prerequisites for MUS 498.12). Refer to General Courses.

499 MASTER'S THESIS
1-6 sem. hrs.

THEATRE (THE)

Acting Chairperson: Sandra Zielinski. Office: Centennial West 212.

Graduate Faculty: D. Browder, C. Catanzarite, C. deVeer, A. Goldfarb, M. Hampton, J. Kirk, C. MacLean, J. McLaughlin-Gray, P. O'Gara, K. Pereira, R. Reinholz, E. Reitz-Mullenix, P. Ritch, W. Ruyle, I. Schleeter, J. Stark, L. Thompson-Merriman, D. Wilhelm, S. Zeck, S. Zielinski.

Three graduate degrees are offered by the Theatre Department: Master of Arts, Master of Science, and Master of Fine Arts. The M.A. and M.S. degrees are general graduate degrees based on the presumption that the student should experience a broad range of courses covering most aspects of theatre. The Master of Fine Arts is generally considered the appropriate terminal degree program for persons in the performance/production areas of theatre.

Master of Science

The Master of Science degree is awarded to a student who has completed a minimum of 32 hours in theatre or approved related courses, and has completed a thesis or passed a departmental comprehensive examination. The Master's degree candidate must take a sequence of courses which includes the following: Theatre 497, included in 9 hours of history/theory-criticism with at least 3 in history and 3 in theory/criticism; 3 hours in acting; 3 hours in directing; 3 hours in costuming; 3 hours in design/technical theatre; and 11 hours of approved electives.

Master of Arts

The Master of Arts degree is awarded to a student who has completed the requirements outlined above. In addition, the student must have completed the following requirements: the student must have earned credit for a minimum of two years of a foreign language at the college level, or must demonstrate a reading knowledge of a foreign language. This latter requirement is met by passing an examination administered by the appropriate foreign language faculty or a reading language proficiency test. The student must also have earned a minimum of 32 semester hours of credit in Humanities and the Social Sciences in addition to work in foreign language. These requirements may be met by satisfactory work at either the graduate or undergraduate level.

Admission Requirements

Students who have maintained an average of 3.0 or more for the last 60 hours of undergraduate education and have a Bachelor's degree are eligible for admission. Students who have fewer than 36 undergraduate hours in theatre, or who have significant deficiencies in their theatre background, may be admitted. In these instances the students will receive a letter from the Chair of the Graduate Committee or the Department Chair suggesting undergraduate courses which must be taken as deficiencies in addition to the 32 hours for the Master's degree. Students are required to submit three recommendations and one example of scholarly writing for consideration.

Ordinarily, students who apply during the last semester of their senior year of undergraduate school will be admitted provisionally by the Graduate School with the statement, "Pending receipt of Bachelor's degree."

Master of Fine Arts

The Master of Fine Arts degree is a 60-hour minimum program that will take most students three years to complete. It emphasizes both theory and practice. Candidates for the degree are

expected to demonstrate proficiency in at least one of the following areas: Acting, Costume Design, Directing, Scene Design. Candidates must demonstrate the ability to understand the conceptual basis of their art and to articulate that understanding to others. The M.F.A. is a professionally oriented degree that assumes that the student will be competent as a practitioner and teacher. Therefore, each candidate will be required to complete Theatre 497 and a supervised experience in college teaching. Professional Practice (1-12 hours) is available in professional/educational theatres for candidates meeting eligibility requirements.

Admission To The M.F.A. Program

All regular criteria for admission to a terminal degree program in the Graduate School of the University and for graduate study in Theatre will apply with the exception of the GRE requirement.

Prospective graduate students will be considered for admission to the Master of Fine Arts program after completing an audition/interview. Each area faculty will determine the admission of candidates in their area. In their second semester admitted M.F.A. candidates will be evaluated for retention in the program. Subsequent annual reviews will be held to determine continuing retention.

Academic Advisers

A temporary Portfolio Committee will be assigned upon admission. If a candidate is retained after the initial annual evaluation, the Chair of the department, in consultation with the student and faculty whom the Chair deems appropriate, will select the candidate's permanent Portfolio Committee. The committee Chair must come from the student's studio area.

Transfer of Credit

A student who does not have an earned master's degree usually may present no more than six semester hours of credit from another college or university for use in meeting the requirements of the M.F.A. degree. However, a student may present all earned hours from an M.A./M.S. program in Theatre at Illinois State University for use in meeting these requirements.

The total hours required for a student with an earned master's degree will be based on an evaluation of the student's portfolio and academic record. However, the final determination will not be made until the student has completed a minimum of six semester hours in his/her major area of emphasis. The student's M.F.A. committee will supervise all evaluations.

A minimum of 32 hours must be taken at Illinois State University.

Residency

A student without an earned master's degree must complete a residency requirement of at least four semesters with at least two of them being full-time, consecutive semesters. A student with an earned master's degree must complete a residency requirement of at least two full-time, consecutive semesters. Summer session may be counted toward the two consecutive semester requirement.

The M.F.A. Portfolio

Each semester of enrollment the M.F.A. candidate will enroll in Theatre 501, M.F.A. Portfolio, for one hour credit. The portfolio is the backbone of the Master of Fine Arts program. It is designed to ensure the regular and systematic evaluation of the student's progress. The portfolio is a collection of materials, including examples of the student's work where appropriate, reviews, evaluations and other artifacts, which may record or characterize the student's experience in the program. The port-

folio also contains the student's responses to evaluations as well as statements from the Portfolio Committee which provide direction for the student's future work in the program.

The student must have a portfolio evaluation for each full semester he/she is in the program. The written results of that evaluation are included in the portfolio. The portfolio provides a cumulative record of the student's progress which is carried over from semester to semester.

Finally, the portfolio, with its record of the student's activities in the program, provides the major objective basis for awarding the degree. Although the student may engage in major creative projects during his/her program, the portfolio stands in lieu of the traditional thesis or creative thesis project which is the culminating experience in many programs.

Qualifying/Comprehensive Examination: A qualifying examination is required prior to the exit portfolio presentation. It may be comprehensive to the extent that it examines the candidate's knowledge of the discipline of theatre; it may include graduate work the student is presenting for the degree; and it may include demonstration of proficiency. The examination will be conducted by the student's M.F.A. Portfolio Committee. The student may request that other faculty members with whom he/she has taken course work participate in the qualifying examination.

Final Portfolio Review and Exit Interview: To be eligible for the exit portfolio presentation, the student must (1) present a grade average of B or above with not more than six (6) hours of C; (2) have completed (or will complete in the current semester) two semesters of full-time resident study; (3) have a plan of study on file with the Graduate School; (4) have passed a qualifying examination; and (5) pass a third year final portfolio review and exit to be conducted by his/her MFA Committee. The format of this review and exit will be determined by the MFA Committee, who will, when the work is deemed satisfactory, recommend the student to the appropriate studio area for graduation. At least one week before the Graduate School graduation notification deadline, the Department Graduate Faculty will meet to hear the studio area's recommendations. Once the Graduate Faculty has approved the student's graduation the student will be recommended to the Graduate School for the granting of the degree, **Master of Fine Arts in Theatre.**

Students should consult with their MFA Portfolio Committees and the Department Graduate Advisor for details and the calendar of the final portfolio review and exit. While no student is guaranteed graduation, those whose work is deemed unsatisfactory may be presented opportunities for remediation by their Portfolio Committees.

Typical M.F.A. Program

Students will encounter a range of experiences that will prepare them to be competent in their specialty. The M.F.A. candidate is required to complete a minimum of 18 hours in his/her studio area at Illinois State University. Additional experiences will ordinarily include:

- A. 12 hours from the areas of theatre history, theatre criticism and theory, and dramatic literature, including Theatre 497.
- B. 6 hours in performance-related courses outside the student's specialty.
- C. 3 hours in college teaching.

After being admitted to one area of concentration in the M.F.A. program and completing 12 hours of course work under the guidance of the Portfolio Committee, the student, with support from his/her Portfolio Committee, may request an audition for a

second area of concentration. Such requests should be made in writing to the Graduate Committee and detail the reasons why such action will aid the scholarly and artistic growth of the student. If admitted in two areas, the student must complete a minimum of 18 hours in each area. A student who undertakes two areas of concentration should expect to be enrolled beyond the normal three-year period. Permission to audition in a second area will be granted only in exceptional cases. The Portfolio Committee may prescribe experiences in addition to the above depending on the student's demonstrated competencies.

A maximum of one year may be taken in an off-campus internship program. Students are required to enroll in Theatre 501, M.F.A. Portfolio, during each semester of residency.

Courses

300 TOPICS IN THE LITERATURE OF THE MODERN THEATRE 3 sem. hrs.

Examination of 20th-century theatrical literature, which may include dramatic literature, criticism, analysis systems, and/or theory. Course content will vary. Prerequisite: THE 100. May be repeated.

309 DIRECTED PROJECTS 1-3 sem. hrs.

Individually supervised study for the advanced student. Prerequisite: Consent of instructor. May be repeated.

312 IMPROVISATION 3 sem. hrs.

Detailed exploration of improvisational skills as a tool for rehearsal and performance. Prerequisites: THE 211, 220, 6 hrs. THE 314, and consent of acting faculty. Not for credit if had THE 112.

313 ACTING II 3 sem. hrs.

Analysis, rehearsal and performance of representative scripts. Prerequisites: THE 110 or equivalent and consent of acting faculty. Not for credit if had THE 113.

314 ACTING STYLE: DISCOVERY AND PERFORMANCE 3 sem. hrs.

Performance styles of a particular playwright, period, or medium such as Shakespeare, Restoration, Plays in Translation, and Acting on Camera. Prerequisites: THE 211, 220, and consent of Acting faculty. May be repeated.

315 ACTING: EXPLORING CHARACTERIZATIONS THROUGH ANIMAL EXERCISES 3 sem. hrs.

Techniques of actor research and characterization using animal models. Exploration of primitive behavior patterns requiring the actor's total physical and psychological commitment. Prerequisites: THE 211, 220, 6 hrs. THE 314, and consent of Acting faculty. May be repeated.

316 ACTING FOR THE MUSICAL THEATRE 3 sem. hrs.

A study of acting problems inherent in performing for various forms of musical theatre. Work to include preparation of musical numbers and scenes. Prerequisites: THE 211, 220, 6 hrs. THE 314, and consent of Acting faculty.

317 VOCAL TECHNIQUE FOR THE ACTOR II 3 sem. hrs.

Advanced studies in vocal discipline for actors, including exercises in breath control, relaxation, alignment, tonal focus and articulation. Prerequisites: THE 211 or equivalent and consent of Acting faculty.

318 VOCAL TECHNIQUE FOR THE ACTOR III 3 sem. hrs.

Further development of the actor's vocal discipline and resources focusing on specialized textual study, character acting and vocal improvisation. Prerequisites: THE 211, or equivalent, and consent of Acting faculty. May be repeated; max 9 hrs..

321 STAGE MOVEMENT II 3 sem. hrs.

Advanced movement techniques, including study of period dances, stage violence, and mime. Prerequisites: THE 220 and consent of Acting faculty.

322 AUDITIONING 3 sem. hrs.

Preparation, performance and evaluation of numerous audition projects; discussion of the actor's search for employment in the professional theatre. Prerequisite: THE 211, 220, and 6 hrs. THE 314, and consent of Acting faculty.

324 STAGE MOVEMENT III 3 sem. hrs.

Continuation of movement training, varying from semester to semester in special areas including mime, stage combat, mask, and/or circus techniques. Prerequisites: THE 220 and consent of Acting faculty. May be repeated; max 9 hrs.

330 THEATRICAL COSTUME DESIGN 3 sem. hrs.

Research and practical application to theatrical costume designing: use of dramatic analysis. Prerequisite: THE 130. May be repeated to total 6 hrs. toward master's degree. M.F.A. student may enroll for credit in each term of residency.

331 HISTORY AND STYLES OF STAGE COSTUMING 3 sem. hrs.

The costume's reflection of cultural and social milieu, and the costume's application to the stage. Prerequisite: THE 130.

332 COSTUME CONSTRUCTION 3 sem. hrs.

Pattern drafting, draping, fitting, and specialized construction techniques for the theatrical costume craftsman. Prerequisites: THE 130 and consent of instructor. Lab arranged.

333 COSTUME CRAFTS 3 sem. hrs.

Theory and techniques of costume construction and use of special materials. Prerequisite: THE 130. Materials charge optional.

340 DIRECTING WORKSHOP 3 sem. hrs.

Principles and methodologies of stage direction applied to particular problems in a workshop format. Prerequisite: THE 240. May be repeated up to 6 hrs. toward degree program.

341 ORAL INTERPRETATION OF LITERATURE II (Directing/Performance) 3 sem. hrs.

Group forms of Interpretation Readers--Theatre and Chamber Theatre, with experiences to provide the student with practical applications of theory and principle. Prerequisite: THE 101 or consent of instructor.

342 STAGE MANAGEMENT 3 sem. hrs.

Theory and application of the basic principles of stage management for intermediate and advanced Theatre students. Prerequisites: THE 130, 237, 240; requires concurrent participation as a stage manager or assistant stage manager for a Mainstage or Studio production.

344 PRINCIPLES OF THEATRE MANAGEMENT
3 sem. hrs.

Introduction and demonstration of the practices and procedures of theatre management in today's theatre. Lab arranged.

345 ADVANCED THEATRE MANAGEMENT
3 sem. hrs.

Intensive work in advanced management techniques for arts organizations, including management practices, union contracts, payrolls, budgeting and income controls. Prerequisite: THE 344 or consent of instructor.

348 PLAYWRITING
3 sem. hrs.

Playwriting techniques of selected masters with practical application of techniques in writing original plays. Also offered as ENG 348.

359 COMPUTER-BASED ART AND GRAPHIC DESIGN
3 sem. hrs.

Application of advanced two- and three-dimensional graphics programs to solve creative problems in the visual and theatrical arts. Prerequisite: ART 386, MUS 386, THE 386 or consent of instructor. Also offered as ART 359. Materials charge optional.

360 PRINCIPLES OF DANCE PRODUCTION
3 sem. hrs.

Principles of public relations, publicity, costuming, lighting, and management used in producing dance performances. Formerly HPE 368.

361 ADVANCED STAGE LIGHTING
3 sem. hrs.

Lighting design for proscenium and non-proscenium production; attention to system design. Prerequisites: THE 261 or consent of instructor. Lab arranged.

362 STAGE DESIGN
3 sem. hrs.

Nature, function, and aesthetics of scene design, with practice in composition. Prerequisites: THE 160, 260 or consent of instructor. Lab arranged.

363 ADVANCED DESIGN
3 sem. hrs.

Intensive work in the areas of design and rendering for the stage; emphasis upon new materials and techniques. Prerequisite: THE 362. May be repeated to total 6 hrs. toward master's degree. M.F.A. student may enroll for credit in each term of residency.

364 ADVANCED PROJECTS IN DESIGN
2-4 sem. hrs.

A study of design and production problems as they relate to productions being mounted by the Theatre Department. Emphasis placed upon creative and collaborative aspects of producing theatre. May be repeated. A maximum of six hours to be applied toward the M.S. or M.A. degree.

365 SCENE PAINTING
3 sem. hrs.

Development of the skills necessary for the organization, preparation, and execution of painted scenery for the stage. Materials charge optional.

367 SCENOGRAPHIC TECHNIQUES
3 sem. hrs.

Descriptive geometry and drafting techniques that are necessary in developing three-dimensional stage space and scenic units into plans, elevations, and working drawings. Prerequisite: IT 210 or equivalent.

370 HISTORY OF THE CINEMA
3 sem. hrs.

Historical and aesthetic development of the cinema. Course content will vary. Lab: Screening of significant films. May be repeated; max 6 hrs.

371 FILM THEORY AND CRITICISM
3 sem. hrs.

Theories relating to art of film making. Prerequisite: THE 170 or consent of instructor.

373 HISTORY AND PHILOSOPHY OF DANCE II
3 sem. hrs.

History, philosophy, and development of dance from the 17th century to the present. Approaches, styles, and contributions of leading dance personalities. Formerly HPE 367.

376 THEATRE HISTORY I
4 sem. hrs.

History of drama and theatrical production from its origin to approximately 1775. Prerequisite: THE 100.

377 THEATRE HISTORY II
4 sem. hrs.

History of drama and theatrical production from the late eighteenth century to the present. Prerequisites: THE 100 and 376.

378 SHAKESPEARE ON STAGE
3 sem. hrs.

An intensive study of Shakespeare's plays in production. For the student with adequate familiarity with Shakespeare and his work. May be repeated once. Also offered as ENG 378.

381 CREATIVE DRAMA PRACTICUM
2-3 sem. hrs.

Practical experience in creative drama teaching by leading a class in drama under faculty supervision for a semester. Prerequisites: THE 280 and consent of instructor. The course is graded (A-F). May be repeated; max. 6 hrs. Includes clinical experiences 10 hours minimum, Type 10.

385 PRINCIPLES OF THEATRE EDUCATION
5 sem. hrs.

Philosophies of theatre education, teaching strategies, co-curricular programs, textbook analysis, professional organizations, and related field experience. Prerequisites: THE 285, C&I 216 with grade of C or better, or consent of instructor. Admission to Teacher Education. Includes clinical experiences, 5-100 hours, Type 1-5.

387 SOFTWARE DESIGN IN THE ARTS
3 sem. hrs.

Designing and programming microcomputer based software which solve particular applications problems in the fine arts. Prerequisite: Consent of instructor. Also offered as ART 387 and MUS 387. Materials charge optional.

388 SELECTED TOPICS IN ARTS TECHNOLOGY
3 sem. hrs.

Varied emphasis reflecting integration of computers with digital sound/graphic technologies and authoring tools for applications in the arts. May be repeated if content different. Prerequisite: THE 276 or consent of instructor. Also offered as ART 388 and MUS 388. Materials charge optional.

400 INDEPENDENT STUDY
1-4 sem. hrs.

Refer to Index for General Courses.

402 THEATRE PRACTICUM**1-3 sem. hrs.**

Production experience in the areas of acting, costume, and scenery preparation, production crew, box office, and stage management. May be repeated.

408 DIRECTED PROJECTS IN ACTING AND DIRECTING**1-4 sem. hrs.**

Individually supervised projects in acting and directing offered by contract in arrangement with graduate faculty. Repeatable. Prerequisite: Consent of instructor.

440 DIRECTING STUDIO**3 sem. hrs.**

Investigation into the skills and principles of stage directing over a broad range of genres and styles determined by instructor. May be repeated. Prerequisite: Consent of instructor.

463 TWENTIETH CENTURY STAGE DESIGN**3 sem. hrs.**

A lecture-seminar course investigating major designers and movements of twentieth century design for the stage.

464 ADVANCED PROJECTS IN DESIGN**2-4 sem. hrs.**

A study of design and production problems as they relate to productions executed by the Theatre Department. Prerequisite: Consent of instructor. May be repeated.

465 ADVANCED PROJECTS IN DIRECTING**2 sem. hrs.**

A study of the problems of directing as they relate to departmental productions and the labwork of the Directing Studio. May be repeated. Prerequisite: Consent of instructor.

468 THEATRES AND AUDITORIUMS: PLANNING AND DESIGN**3 sem. hrs.**

Technical problems in stage and auditorium design and planning: emphasis on stage rigging, lighting, and sound equipment. Laboratory. Prerequisite: THE 362.

474 THE AMERICAN THEATRE**3 sem. hrs.**

Development of the theatre, its dramatic literature, and its arts and crafts in America from its beginning to present.

475 HISTORY OF THE MODERN THEATRE**3 sem. hrs.**

Developments in stagecraft, theatre architecture, directing, acting, and theatrical theory from the late 19th century to the present.

476 SEMINAR IN THEATRE HISTORY**3 sem. hrs.**

A seminar in theatre history with the topic changing each time the course is offered. Seminar in Theatre History may be repeated for up to 6 hours.

478 DRAMA FORM**3 sem. hrs.**

Attitudes toward drama form from classical Greek to modern theatre are examined from the perspective of contemporary theories of the nature of dramatic action.

479 DRAMA THEORY AND CRITICISM**3 sem. hrs.**

Theatre practice from the point of view of a contemporary aesthetic. Subject of investigation will change from semester to semester.

497 INTRODUCTION TO RESEARCH METHODOLOGY IN THEATRE**3 sem. hrs.**

Selection of a research problem, collection of data, types of research, the research report, and use of the library and computer resources in connection with the research problem as applied to theatre history, acting, directing, playwriting, design, criticism, and teaching.

498 PROFESSIONAL PRACTICE**1-12 sem. hrs.**

Refer to Index for General Courses.

499 MASTER'S THESIS**1-6 sem. hrs.**

Refer to Index for General Courses.

500 INDEPENDENT STUDY**1-4 sem. hrs.**

Refer to Index for General Courses.

501 M.F.A. PORTFOLIO**1 sem. hr.**

A student accepted into the M.F.A. program must enroll for credit under the supervision of the Portfolio Committee Chairperson.

FULL MEMBERS OF THE GRADUATE FACULTY

Members as of January 1997

- Larry Allen Alferink**
Department Chairperson
Professor, Psychology
Ph.D., Utah State University
- David S. Allen**
Assistant Professor, Communication
Ph.D., University of Minnesota-Twin Cities
- Gregory F. Aloia**
Professor, Specialized Educational Development
Ph.D., University of California-Riverside
- James Joseph Alstrum**
Associate Professor, Foreign Languages
Ph.D., Vanderbilt University
- Gary A. Ames**
Assistant Professor, Accounting
Ph.D., University of Georgia
- Susan Frederica Amster**
Professor, Art
Ph.D., University of Texas-Austin
- Frances E. Anderson**
Distinguished Professor, Art
Ed.D., Indiana University-Bloomington
- Roger Clark Anderson**
Distinguished Professor, Biological Sciences
Ph.D., University of Wisconsin-Madison
- Susan Kay Appel**
Associate Professor, Art
Ph.D., University of Illinois-Urbana-Champaign
- William Carthon Archer**
Associate Professor, Art
Ph.D., University of Virginia
- Joseph Everett Armstrong**
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Ph.D., Miami University
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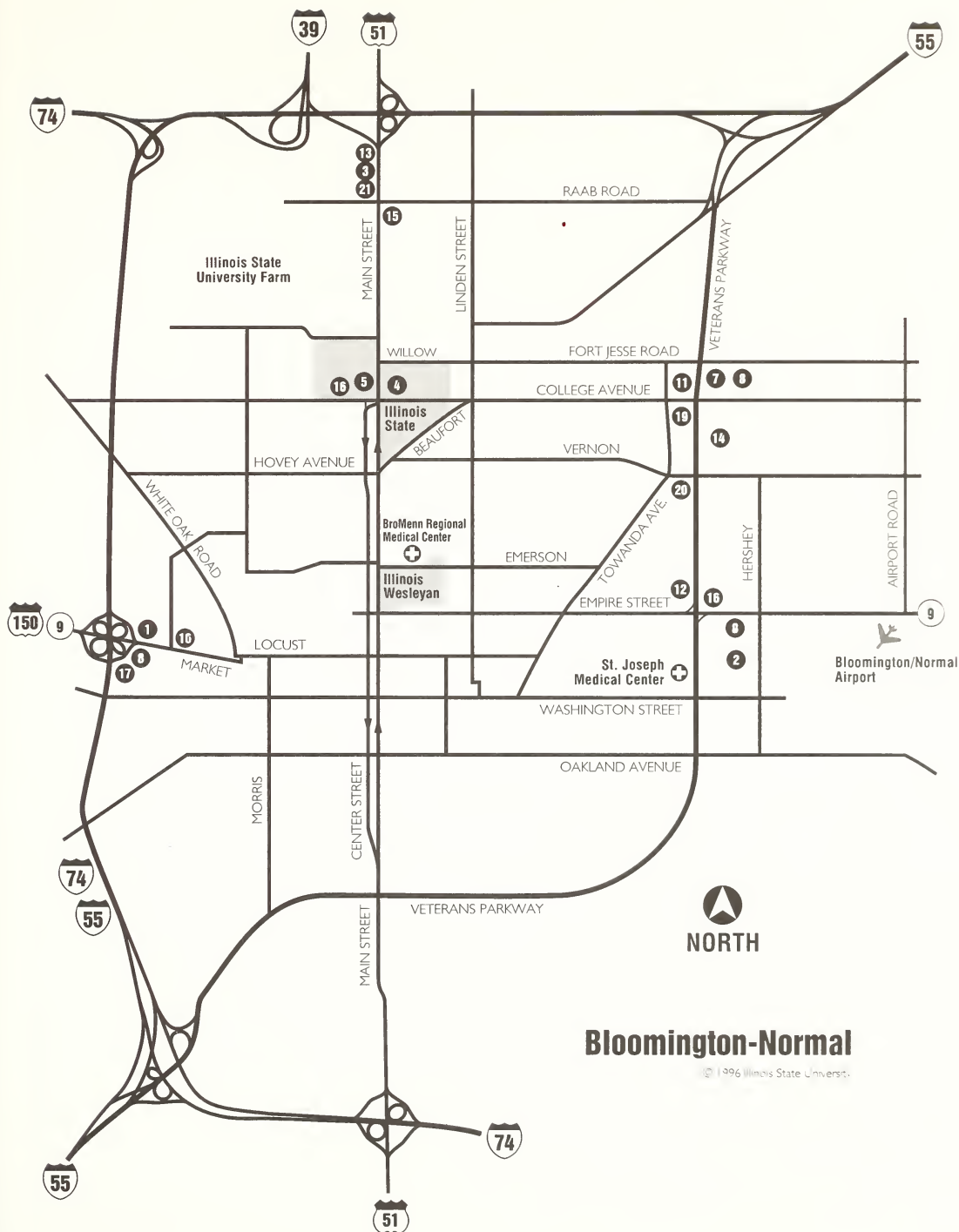
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